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VOLUME 16 APRIL-MAY-JUNE, 1919 NUMBER 2

BULLETIN

OF

THE OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE

CATALOG 1918-1919

WITH ANNOUNCEMENTS FOR 1919-1920

PUBLISHED QUARTERLY BY

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE

STILLWATER, OKLAHOMA

ENTERED MARCH 9, 1903, AS SECOND CLASS MATTER, UNDER ACT OF CONGRESS OF JULY 16, 1894. ACCEPTANCE FOR MAILING AT SPECIAL RATE OF POSTAGE PROVIDED FOR IN SECTION 1103, ACT OF OCTOBER 3, 1917, AUTHORIZED SEPTEMBER 17, 1918

THE
JOHN CRERAR
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BULLETIN

OF THE

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE

STILLWATER, OKLAHOMA

TWENTY-EIGHTH

ANNUAL CATALOG

1918-1919

WITH ANNOUNCEMENTS FOR 1919-1920

PUBLISHED QUARTERLY BY THE OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE
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Entered as second-class matter March 9, 1903, at the Postoffice at Stillwater, Oklahoma, under Act of July 16, 1894. Acceptance for mailing at special rate of postage, provided for in Section 1103, Act of October 3, 1917, authorized September 17, 1918

CHART OF OKLAHOMA A. & M. COLLEGE WORK

Oklahoma Agricultural and Mechanical College

The College after twenty-seven years of edevelopment consists of 123 teachers and officers, a group of sixteen brick and stone buildings, a science equipment costing more than a quarter of a million dollars, and 1,000 acres of land. Total value of buildings, grounds and equipment, $1,127,220.02

1. Resident Instruction

Four-Year Courses in
- Agriculture
- Engineering
- Home Economics
- Science and Literature
- Education
- Veterinary Medicine
- Commerce and Marketing

Two-Year Courses in—
- Vocational Agriculture
- Vocational Home Economics
- Trades and Industries
- Business Training

Short Courses for—
- Dairymen
- Farm Boys
- Farmers
- Engineers
- Teachers

2. Experimentation and Research

The Agricultural Experiment Station carries out investigations along agricultural and related lines. Subjects of investigations are: Crops, soils, fertilizers, feeds, feeding, plant and animal breeding, and diseases, and pathological, physiological conditions of plants and animals, veterinary medicine, etc.

Bulletins and an Annual Report are published for free circulation.

3. Extension Service

Agricultural Extension under the terms of the Smith-Lever Act—County Agent work in Agriculture and Home Economics.

Lectures at Farmers' Institutes and other meetings.

Organizing Boys and Girls Clubs at home for the study of Agriculture, Domestic Art and Science, and related subjects.

Bulletins, circulars and annual reports are published for free circulation.

Oklahoma Farmers' Congress.

COLLEGE CALENDAR

First Semester

1919

September 4, Thursday—Entrance Examinations.
September 4 and 5, Thursday and Friday—Registration.
September 6, Saturday—Classwork Begins.
November 27, Thursday—Thanksgiving Day, a Holiday.
December 19, Friday—Christmas Holidays Begin.
December 30, Tuesday—Work of First Semester Resumes.

1920

January 20, Tuesday—First Semester Closes.

Second Semester

January 20, Tuesday—Entrance Examinations.
January 21 and 22, Wednesday and Thursday—Registration.
January 23, Friday—Classwork Begins.
Easter Vacation Begins Friday Morning Before Easter Sunday and Closes Monday Morning After Easter Sunday.
May 23, Sunday—Baccalaureate Sermon.
May 28, Friday—Commencement Day; Second Semester Closes.

Summer Session

May 31, Monday—Summer Session Opens.
July 30, Friday—Summer Session Closes.

(The Faculty reserves the right, without further notice, to modify any announcement made in this catalog, if circumstances render such change necessary, and in any event will be bound by it for only the year following the date of publication.)

Oklahoma A. & M. College had 1438 men in service, 15 of whom were decorated by the Allied Nations.

See Index for Directory.

THE
JOHN CRERAR
LIBRARY

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*Leave of absence. **Resigned.

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JANE PORTER SLOSS, Graduate in Piano, Logan College, New England Conservatory; *Instructor in Piano.*

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JOHN OSCAR MUNCIE, Diploma, Northwestern State Normal, Oklahoma; *Instructor in Secondary School.*

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MAIZIE RUE BRIDGES, American Conservatory, Chicago, Student of Oscar Saengar; *Instructor in Voice.*

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**MARY ELEANOR MUSTAIN, Diploma, Central Normal, Illinois, Certificate Pratt Institute, A. M., Wellsley College; *Instructor in English, Secondary School.*

*Leave of absence. **Resigned.

KATE VERMILLION, Graduate, Baylor College; *Instructor in Piano.*

BERNICE CORNELIA WAIT, B. S., McKendree College, M. S., University of Illinois; *Instructor in Domestic Science.*

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**Resigned.

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***JOHN BAKER, *Agronomy.*

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LESTER ELLEDGE, *Shops.*

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MOSSIE MOSELEY, *Chemistry.*

ARTHUR LEE VAN ARSDALE, *Drawing and Art.*

TRISSIE YOUNG, *Chemistry.*

***Deceased.

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GLADYS MADIGAN, *School of Commerce and Marketing.*

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*Leave of absence. **Resigned.

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—o—

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J. W. RILEY - - - - - Bristow, Creek County
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CLINT YOUNG - - - - - Grove, Delaware County
W. F. PORTER - - - - - Taloga, Dewey County
F. F. PARKER - - - - - Arnett, Ellis County
J. I. BUNYARD - - - - - Enid, Garfield County
S. A. SHARP, *Assistant* - - - - - Enid, Garfield County
T. D. FELTS - - - - - Pauls Valley, Garvin County
WM. S. MARSH, *Assistant* - - - - - Pauls Valley, Garvin County
J. W. OWEN - - - - - Chickasha, Grady County
ERIC HILDEBRAND, *Assistant* - - - - - Chickasha, Grady County
E. R. LAWRENCE - - - - - Medford, Grant County
R. D. BROWNELL - - - - - Mangum, Greer County
W. R. AUFILL - - - - - Hollis, Harmon County
H. E. WHEAT - - - - - Buffalo, Harper County
T. H. MOORE - - - - - Stigler, Haskell County
T. A. VANDERPOOL - - - - - Holdenville, Hughes County
BEN CRAWFORD - - - - - Altus, Jackson County
C. C. STINSON - - - - - Ryan, Jefferson County

J. P. GRAY - - - - - - - - - - - - - - - Tishomingo, Johnston County
J. F. RIDDELL - - - - - - - - - - - - - - - Newkirk, Kay County
M. G. HARNDEN, *Assistant* - - - - - - - - - - - - Newkirk, Kay County
J. R. WILEY - - - - - - - - - - - - - - - Kingfisher, Kingfisher County
O. W. TALLEY - - - - - - - - - - - - - - - Hobart, Kiowa County
JOSEPH R. SPENCER, *Assistant* - - - - - - - - - - - Hobart, Kiowa County
C. G. EVANTS - - - - - - - - - - - - - - - Wilburton, Latimer County
H. W. C. SHELTON - - - - - - - - - - - - - - Poteau, Leflore County
J. W. GUIN - - - - - - - - - - - - - - - Chandler, Lincoln County
A. P. GREGORY - - - - - - - - - - - - - - - Guthrie, Logan County
R. F. WATERS - - - - - - - - - - - - - - - Marietta, Love County
WORD CROMWELL - - - - - - - - - - - - - - - Purcell, McClain County
L. G. HERRON - - - - - - - - - - - - - - - Idabel, McCurtain County
A. L. EDMIASTON, *Assistant* - - - - - - - - - - - Idabel, McCurtain County
O. L. WOLF - - - - - - - - - - - - - - - Eufaula, McIntosh County
H. B. BINKLEY - - - - - - - - - - - - - - - Fairview, Major County
H. GARLAND - - - - - - - - - - - - - - - Madill, Marshall County
E. DICKERSON - - - - - - - - - - - - - - - Pryor, Mayes County
A. J. STEVENS - - - - - - - - - - - - - - - Sulphur, Murray County
J. M. DAILY - - - - - - - - - - - - - - - Muskogee, Muskogee County
A. RAY SMITH, *Assistant* - - - - - - - - - - - - Muskogee, Muskogee County
S. E. LAIRD - - - - - - - - - - - - - - - Perry, Noble County
H. M. WOLVERTON - - - - - - - - - - - - - - Nowata, Nowata County
E. A. KISSICK - - - - - - - - - - - - - - - Okemah, Okfuskee County
C. R. DONART - - - - - - - - - - - - - - - Oklahoma City, Oklahoma County
E. B. STRADER, *Assistant* - - - - - - - - - - - Oklahoma City, Oklahoma County
J. T. CARTER - - - - - - - - - - - - - - - Okmulgee, Okmulgee County
S. M. MCCUISTION - - - - - - - - - - - - - - Pawhuska, Osage County
H. E. WILSON, *Assistant* - - - - - - - - - - - - Fairfax, Osage County
JAS. LAWRENCE - - - - - - - - - - - - - - - Miami, Ottawa County
M. T. MAUDLIN - - - - - - - - - - - - - - - Pawnee, Pawnee County
G. W. MUSGRAVE - - - - - - - - - - - - - - - Stillwater, Payne County
W. T. YOAKUM - - - - - - - - - - - - - - - McAlester, Pittsburg County
J. L. HOWE, *Assistant* - - - - - - - - - - - - McAlester, Pittsburg County
J. B. HILL - - - - - - - - - - - - - - - Ada, Pontotoc County
R. C. MOORE - - - - - - - - - - - - - - - Shawnee, Pottawatomie County
GEO. INNES - - - - - - - - - - - - - - - Antlers, Pushmataha County
W. B. MORRISON, *Assistant* - - - - - - - - - - - Antlers, Pushmataha County
A. I. JORDAN - - - - - - - - - - - - - - - Cheyenne, Roger Mills County
S. J. MOLBY - - - - - - - - - - - - - - - Claremore, Rogers County
H. G. HOWARD - - - - - - - - - - - - - - - Wewoka, Seminole County
FRED INGRAM - - - - - - - - - - - - - - - Sallisaw, Sequoyah County
R. S. COLEMAN - - - - - - - - - - - - - - - Duncan, Stephens County
J. B. HISEY - - - - - - - - - - - - - - - Guymon, Texas County
J. W. SIMPKINS - - - - - - - - - - - - - - - Frederick, Tillman County
J. S. MALONE - - - - - - - - - - - - - - - Tulsa, Tulsa County
L. B. CACY, *Assistant* - - - - - - - - - - - - - Tulsa, Tulsa County
C. M. HUBBARD - - - - - - - - - - - - - - - Wagoner, Wagoner County
R. L. GRAVES - - - - - - - - - - - - - - - Bartlesville, Washington County
- Washita County
W. D. KENNON - - - - - - - - - - - - - - - Alva, Woods County
W. F. GRAY - - - - - - - - - - - - - - - Woodward, Woodward County
C. T. FORRESTER, *Assistant* - - - - - - - - - - - Woodward, Woodward County

Colored Agents

P. M. MANN - - - Okmulgee, Okmulgee and southwest half of Wagoner County
W. M. MINGO - - - - - - Chandler, Okfuskee, Lincoln and Creek Counties
LEVI NELSON - - Muskogee, Muskogee and southeast fourth of Wagoner Counties
G. S. PARKER - - - - - - - - - - - - - - - Eufaula, McIntosh County
J. W. SHOALS - - - - - - - - - - - - - - - Idabel, McCurtain County
J. E. TAYLOR - - - - - - - - - - - - - - - Boley, Okfuskee County

County Home Demonstration Agents

MRS. ELIZABETH WARD - - - - - - - - - - - - - Atoka, Atoka County
MRS. MARY H. NEWSOM - - - - - - - - - - - - - Beaver, Beaver County
MRS. MATTIE I. ROYSE - - - - - - - - - - - - - Elk City, Beckham County
MRS. KATHERYN E. JACKSON - - - - - - - - - - - - Durant, Bryan County
MISS VERA MILLER - - - - - - - - - - - - - Anadarko, Caddo County
MRS. MARY B. RUFF - - - - - - - - - - - - - El Reno, Canadian County
MRS. MINNIE B. CHURCH - - - - - - - - - - - - Ardmore, Carter County
MISS ESTHER MAY GOODING - - - - - - - - - - - - Hugo, Choctaw County
MISS GRACE TEE CLOWDIS - - - - - - - - - - - - Coalgate, Coal County
MRS. MAUD SIMS - - - - - - - - - - - - - Lawton, Comanche County
MISS EDNA I. WHITAKER - - - - - - - - - - - - Bristow, Creek County
MRS. JESSIE WATKINS - - - - - - - - - - - - - Clinton, Custer County

MRS. A. N. SOUTHWICK	Enid, Garfield County
MRS. MARY D. WARE	Pauls Valley, Garvin County
MRS. NETTIE R. CORYELL	Chickasha, Grady County
MRS. DAISY N. ELDER	Medford, Grant County
MRS. ELIZABETH B. DUMONT	Mangum, Greer County
MISS MARGARET E. HOPKINS	Hollis, Harmon County
MR. IDA E. SWEET	Buffalo, Harper County
MISS RACHEL L. BLAIR	Stigler, Haskell County
MRS. IDA GIGRAY	Hobart, Kiowa County
MISS GRACE M. EVANTS	Wilburton, Latimer County
MRS. MARY A. E. SHELTON	Poteau, Leflore County
MRS. CORA L. TAYLOR	Talihina, Leflore County
MRS. CLARA EMMONS	Guthrie, Logan County
MRS. CHARLOTTE H. WEST	Idabel, McCurtain County
MRS. FLORA E. BEVER	Fairview, Major County
MISS MAUD ANDREWS	Madill, Marshall County
MRS. ROSA D. STEVENS	Sulphur, Murray County
MISS ETHEL F. PHELPS	Muskogee, Muskogee County
MRS. LULA S. GREEN, *urban*	Muskogee, Muskogee County
MRS. ADA B. SIMS	Perry, Noble County
MISS MABEL F. MITCHELL	Nowata, Nowata County
MISS GLADYS GRAY	Okemah, Okfuskee County
MISS LILLIE ITA ROSS	Oklahoma City, Oklahoma County
MISS MARIEL HOPKINS, *Urban*	Oklahoma City, Oklahoma County
MRS. FRANCES R. MCLEOD	Okmulgee, Okmulgee County
MRS. ALMA T. MCCUISTION	Pawhuska, Osage County
MRS. ELIZABETH CLARK	Stillwater, Payne County
MRS. ELVA R. DUVALL	Oakman, Pontotoc County
MRS. VIRDIE E. MOORE	Shawnee, Pottawatomie County
MRS. ELLA INNES	Antlers, Pushmataha County
MRS. MYRTLE WATSON	Claremore, Rogers County
MRS. ETHEL HOWARD	Wewoka, Seminole County
MRS. EVA MOSTELLER	Frederick, Tillman County
MISS CARRIE LOVETTE	Tulsa, Tulsa County
MRS. SADA R. GROMMETT, *Urban*	Tulsa, Tulsa County
MISS IVA M. BURCH	Bartlesville, Washington County

Women Agents (Colored)

MRS. H. V. ASHCRAFT	Guthrie, Logan and Oklahoma Counties
MISS AQUILLA O. CHADWICK	Muskogee, Muskogee and Wagoner Counties
MRS. ANNIE PETERS	Boley, Okfuskee and Seminole Counties
MISS MAUD SMITH	Okmulgee, Okmulgee and McIntosh Counties
MISS CAMILLA STEWART	Ardmore, Carter and Marshall Counties

OKLAHOMA A. & M. COLLEGE CADET CORPS

FRANK D. WICKHAM
Colonel, United States Army
Commandant of Cadets

MALCOM E. CRAIG
First Lieutenant, United States Army
Assistant Commandant of Cadets

MICHAEL McDONALD
Sergeant Major, United States Army, Retired
Assistant to Commandant of Cadets

FRANK J. SOTILLE
Sergeant United States Army
Assistant to Commandant of Cadets

Headquarters Company

Captain and Regimental Adjutant
Walker, Morgan
Captain and Regimental Supply Officer
Bilyeu, Floyd
Regimental Sergeant Major
Reese, Chas.
Regimental Supply Sergeant
Frost, Reuben
Color Sergeants
Bonham, Wendell
Bakhaus, Orville
Chief Musician
Folk, John
Chief Trumpeter
Thorpe, W. D.
Principal Musician
Martin, Frank
Drum Major
Haston, Clyde
Sergeants
Coppedge, William
Hendrix, Rex
Stevens, Carl
White, Bob
Stewart, J. F.
Means, R. V.
Corporals
Ryan, Dana
Swim, Paul
Shannon, R. D.
Tilton, R. D.
Young, J. C.
Kuhlmier, Leslie
Sturgis, Alden
Nelson, R. H.
Privates
Bieberdorf, Gustav
Calavan, Spencer
Elrod, Clyde
Folk, Joe
Fry, R. B.
Holmes, Raymond
Kramer, Teddy
Landsaw, Robert
McKee, Loren
Murray, James
Rolette, J. J.
Rolette, Harold
Sturgis, N. H.
Swim, E. E.
Soule, E. F.
Scroggs, Wm.
Smelser, Carl
Stevens, Carl
Smith, Norman
Woolard, Chas.
Wall, Robert
Calavan, Louis
Thornton, Bill

First Battalion

MAJOR C. E. BELLIS

COMPANY A

Captain
Douglas, Glen M.
First Lieutenant
Stafford, Joseph D.
Second Lieutenant
Goodwin, R. Q.
First Sergeant
Brunskill, Don
Sergeants
Wallace, John C.
Elledge, L. E.
Loosen, Ernest M.
Wyatt, Wm. B.
Corporals
Sherman, Clyde
Morrell, Chas.
Sugg, Herbert
Wilson, Hubert C.
Pulliam, Gordon

COMPANY B

Captain
McMillan, M. B.
First Lieutenant
Stafford, Fred
Second Lieutenant
Reid, Faye E.
First Sergeant
Tabor, Paul S.
Sergeants
Keene, Paul
Parker, O. H.
Dickerson, L. L.
Hildebrand, Richard
Corporals
Thomas, F. E.
Zalabak, T. B.
Henson, Homer H.
McKnight, E. F.
Craft, Martin

COMPANY C

Captain
Hatch, Thomas
First Lieutenant
Molecek, Thos. E.
Second Lieutenant
Wolff, J. P.
First Sergeant
Carleton, Howard
Sergeants
Denman, Roger S.
Stone, Blair
Hand, Dent
Walsh, Claude
Hirzel, Homer
Corporals
Chambers, Lloyd
Coats, Harold E.
Martin, Leroy
Sibley, Robt. H.
Hinson, Marcus

Privates
Arrangton, Emmett
Bernhart, Foxen
Bird, Jack
Boland, Ray
Campbell, Wm. D.
Dressen, Louis
Dunnagan, Glen
Elledge, Audry
Evanhoe, Bernard
Floyd, Rossie
Early, George
Gearhart, Barton
Morey, Gordon
Guthrie, Raymond
Hackett, Ben
Holloway, Thomas L.
Hollingshead, Estell
Kelly, Edwin
Kidd, Robert L.
Knight, Ivan
Kroutil, Ed
Loosen, Max
McWethy, Mead
McDonald, Leon J.
Oliver, Cecil
Perryman, Levi
Rowley, S. E., Jr.
Sanford, Lawrence
Seabach, Clarence
Siever, W. V.
Slief, Wm.
Smith, Bert
Smith, Morris
Spaulding, Jim
Stuteville, Orion
Symms, Eldridge
Venables, Perry
Walker, Clifford
Ward, Elvin
Williams, Paul
Williams, H.
Hartpence, Doorland

Privates
Abbott, Vern A.
Arnold, S. H.
Albright, Grady
Anderson, Eric
Beckham, Ivan
Bieberdorf, Fred W.
Biggerstaff, Harmon
Block, F. H.
Bolyard, Wayne
Bartlett, Burl
Brown, Bainbridge
Bradshaw, Claude A.
Conrad, Ralph
Crume, Ray
Davis, Claude
Davis, Rob A.
Suekww, Jack
Gieber, Chester
Gibson, J. L.
Graham, Robt.
Hawthorne, Roy
Henry, Walter
Horner, J. R.
Hubbard, Wayne
Kramer, Lloyd A.
Landers, Leo M.
McLaughlin, George
McCurley, Alvin D.
Morse, Wm. O.
Moslander, Proctor
Oxley, Marx
Reed, Nathan G.
Rice, Lewis W.
Seamey, Geo.
Shanklin, Roscoe M.
Snyder, Walton
Swanson, J. L.
Thomas, Harry A.
Varnum, Robt.
Wilbanks, Grady
Wood, William
Zeman, John K.

Privates
Barrett, F. L.
Bartow, John
Bell, Horace J.
Bentley, Walter
Bigley, Wm. Earl
Bishop, Willie J.
Carlisle, Robert
Coleman, Elston
Dale, Thomas
Duncan, Currie
Ellithorp, Roy
Fath, Geo. W.
Tankersley, A.
Goudelick, Wm. B.
Hollford, Western
Hawthorne, John
Hargis, Frank E.
Hewett, Frank
Henson, Ralph
Hurford, John R.
Hubbard, H. H.
Knight, Joe M.
Lemmon, Haven D.
Morris, Glen W.
Montgomery, A.
Nixon, Gilbert
Pugh, Marcus
Robberson, Price A.
Scott, Forrest
Springer, Geo. C.
Smart, Harold
Smith, Earl
Swartz, Edgar
Swinney, Robert
Swanson, Lewis
Terrill, James
Thomas, Frank S.
Wisherd, James
Wisherd, Thomas
Widener, Hay.

Second Battalion

MAJOR E. W. MARKWELL

COMPANY D

Captain
Rey, Walter
First Lieutenant
Carlton, Oscar
Second Lieutenant
Glendenning, Geo.
First Sergeant
Walcott, Clint
Sergeants
Donovan, Dennis E.
Kratzer, Roy E.
Hubenthal, Harry K.
Word, C. V.
Corporals
Winsett, Donald L.
Farrington, Wm. G.
Steele, M. G.
Currie, Harry E.
Florence, Dave
Wells, Cecil G.
Privates
Arnett, Irving
Baker, Willard
Beil, Cecil W.
Beanblossom, Floyd
Blakely, Horace C.
Bollinger, Philip
Rose, Carl

COMPANY E

Captain
Ahern, Raymond
First Lieutenant
Cantwell, Robert
Second Lieutenant
Clump, T. D.
First Sergeant
Park, H. Clay
Sergeants
Friedemann, Adolf
Briggs, A. B.
Word, Edwin W.
Smith, J. M.
Corporals
Fountain, Hugh A.
Gourley, Lawrence
Dunivan, Ralph
Bowers, Copeland
Kollar, S. F.
Duncan, Ray
Privates
Brower, Frank
Burnham, Cecil
Bittman, Walter
Cheatham, James
Carlton, Gilby
Couch, Earl
Christmas, Geo.

COMPANY F

Captain
Swim, Leslie L.
First Lieutenant
.....
Second Lieutenant
Starke, Leonard
Baker, Oral
First Sergeant
Nault, Joe
Sergeants
Chambers, Harry
Wood, Paul H.
Tyler, Dola
Calame, Carroll
Corporals
Robinson, Maurice
Rankin, Price
Carmichael, Claud
Pratt, Roy
Privates
Cowan, Ira
Cermak, Wesley
Callaway, Marshall
Campbell, C. L.
Geiger, Robt.
Green, Horace
Hull, Ernest
Hanes, Alger

Clark, Herbert
Colbert, Abijah
Emert, Glen
Grubb, Glenn
Halderman, Robert
Hendrickson, Hugh
Hill, Elmer
Link, William
Lively, H.
Marks, Geo.
Ives, Maxwell
McDonald, Tillman
Murray, Messena
Mulvey, Mike O.
Oldham, Roy
Patton, Willie
Patchett, Robert
Reeder, Dewey
Roberts, Ed
Sheets, Marion
Smart, Claude
Smith, Homer C.
Stout, W. M.
Thomas, G. M.
Tripp, E. J.
Vincent, Clausine
Wilson, Hubert H.
Wilson, Chas.
Wilson, Ethen T.
Wilson, Lee
Woolbert, Howard
Worrell, Frank
Wycoff, Geo. R.

Dale, Donovan
Davis, Con C.
Eaton, Howard
Egbert, Harold
Goold, Edward
Frost, Mark
Foreman, Clifton
Foliart, Jess
Fellows, Leland
Franklin, F. E.
Found, Scottie
Goudelock, Walter
Goode, Francis
Graves, Eugene
Green, Ralph
Henson, Merritt
Heck, Cecil
Henson, Elmer
Ingram, Clyde
Jackson, L. L.
Knight, Fred
Lonergan, John L.
Long, Wm.
McClung, Robt.
Morris, Sam
Morey, Donald
Maness, Verne
Pareno, Mike
Redmond, Cecil
Stoutz, Oscar
Taylor, Clarence P.
Thompson, C.
White, Fleming
Crabtree, E. L.

Hampton, Leo
Hurst, Henry
Huckstep, J. T.
Isenberg, Gilbert
Jehlicka, Ludwik
Knipe, Streeter
Lauderdale, Glen
Reynolds, Leonard
Ludwick, Russell
Morgan, Wm. A.
Maxwell, Clifford
McCullough, Lloyd
McCoy, Vance
Melton, Mark
Megee, Vernon
Offield, John
Organ, Ben
Pecha, Louis
Powers, Eugene
Richards, Glen
Ramsey, Eugene E.
Redmond, Cecil
Smith, Basil
Steele, John B.
Sullins, Raymond
Tate, Marion
Vincent, Robert
Webb, Milton
Wood, Theodore
Wood, John C.
Wilson, J. R.
Young, Raymond

STANDING COMMITTEES OF THE FACULTY, 1919-20

ENTRANCE
GUNDERSON, *Chairman;* MARONEY, BOWERS, ROCKEY, POFFENBERGER

COLLEGE GOVERNMENT
MARONEY, *Chairman;* KEMP, BEESON

TEXTBOOKS
JONES, *Chairman;* JABLOW, MICHAELS

GRADES AND REPORTS
GUNDERSON, *Chairman;* CHAMBERS, TALBOT

DORMITORY
BEESON, *Chairman;* THORNTON, HARTSOCK

STUDENT PLAYS AND SOCIAL ENTERTAINMENTS
MOORHOUSE, *Chairman;* ARNOLD, THORNTON

COURSES OF STUDY
BOYD, *Chairman;* DEANS OF SCHOOLS

LITERARY SOCIETIES
ROCKEY, *Chairman;* PELSMA, ARNOLD

CATALOG AND COLLEGE PUBLICATIONS
MALONE, *Chairman;* DEANS OF SCHOOLS

SCHEDULE
LANE, *Chairman;* DOWELL, MCELROY

DINING HALL SUPPLIES
DOERING, *Chairman;* HASTINGS, OTEY

STUDENT LABOR
BOYD, *Chairman;* HARTSOCK, ROLFS

ATHLETIC COUNCIL
MOORHOUSE, *Chairman;* GALLAGHER, WILLIAMS

AFFILIATED SCHOOLS
DUNLAVY, *Chairman;* CALDWELL, MCCARREL

LIBRARY
KEMP, *Chairman;* CHAMBERS, MOORHOUSE, KNIGHT

RULES AND REGULATIONS
KEMP, *Chairman;* MARONEY, THORNTON

GRADUATE COURSES
SANBORN, *Chairman;* BOWERS, GUNDERSON, CHAMBERS

AGRICULTURAL PUBLICATIONS
KNIGHT, *Chairman;* BENTLEY, PRESIDENT

BOARDING AND ROOMING HOUSES
BEDINGER, *Chairman;* CALDWELL, THORNTON, DAANE

ADVANCED STANDING
WHITENTON, *Chairman;* CHAMBERS, POFFENBERGER, DEANS OF SCHOOLS

FORENSIC COMMITTEE
PELSMA, *Chairman;* ROCKEY, CALDWELL, JONES

CONVOCATION PROGRAM
HARTSOCK, *Chairman;* MICHAELS, MAKOVSKY

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE

The Oklahoma Agricultural and Mechanical College is a State and Federal institution of higher and broader learning, offering technical, scientific education to white persons 14 years of age and over, and carrying through the experimental and extension service valuable scientific information to many thousands who can never visit or attend a college.

The service rendered by the A. and M. College to the State is three-fold:

(1) To educate and train in all that relates to applied science, the industries and citizenship, by affording both liberal and technical studies, laboratories, shops and fields for development of character, the mind and industrial efficiency—the College proper.

The A. and M. College consists of seven schools comprising thirty-five departments. These schools offer distinct courses of instruction to those applying for graduation. The Schools of Agriculture, Engineering, Home Economics, Science and Literature, Education, and Commerce and Marketing offer the degree Bachelor of Science (B. S.) to graduates, and Master of Science (M. S.) to those completing a postgraduate course.

(2) To carry forward investigations in agriculture of a research or experimental nature, to learn and disseminate new facts of importance to farmers of the State—the Agricultural Experiment Station.

(3) To instruct citizens of the State, who are not residents at the College, and their families, in the best proven methods of economic agriculture and domestic science—the Extension Division.

Tuition is free in all courses and departments. The College is

supported by the Federal Government and by the State of Oklahoma as a part of the free school system.

LAWS CONCERNING THE COLLEGE

The A. and M. College owes its origin to a bill offered by United States Senator Morrill of Vermont in 1862, which provides funds for one such institution of learning in every State of the Union, and sets aside certain public lands from which endowments have come to each of these State and Federal Colleges. Therefore these institutions are known as "The Land Grant Colleges".

This Act of Congress, approved July 2, 1862, gave to each State which accepted its provisions 30,000 acres of Government land for each of its Representatives in Congress, the proceeds to be applied to the endowment and maintenance of colleges.

> "where the leading subject shall be, without excluding the other scientific and classic studies, and including military tactics, to teach such branches of learning as are related to agriculture and mechanic arts, - - - - - - - in order to promote the liberal and practical education of the industrial classes in the various pursuits and professions of life."

Again, in 1887, Congress provided for an Agricultural Experiment Station in connection with each of the Land Grant Colleges:

> "That in order to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture and to promote scientific investigation and experiments respecting the principles and application of agricultural science, there shall be established under the direction of the College in each State or Territory, established - - - in accordince with an - - - - 'Act donating public land to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts' - - - a department to be known and designated as an 'Agricultural Experiment Station'."

The First Legislature of the Territory of Oklahoma adopted a resolution assenting to and accepting the provisions of Congress and established the Oklahoma Agricultural and Mechanical College in Payne County, at Stillwater, December 25, 1890.

Congress also provided 250,000 acres of public land as a permanent endowment for the College in the Enabling Act granting statehood to Oklahoma.

The Oklahoma Constitution provides that the State Board of Agriculture shall be the Board of Regents of the A. and M. College in the following:

"Said Board (of Agriculture) shall be maintained as a part of the State Government and shall have jurisdiction over all animal quarantine regulations and shall be the Board of Regents of all State Agricultural and Mechanical Colleges, - -"

The Oklahoma Constitution is the only State Constitution recognizing the fundamental importance of agriculture and domestic science. It declares that—

"The Legislature shall provide for the teaching of agriculture, horticulture, stock feeding and domestic science in the common schools of the State."

According to the laws of Oklahoma *"The Agricultural and Mechanical College shall be the technical head of the Agricultural, Industrial and allied Science system of education in Oklahoma".*

In 1914 Congress adopted the Smith-Lever Bill, which provided:

"That in order to aid in diffusing among the people of the United States useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same, there may be inaugurated in connection with the college or colleges in each State - - - - agricultural extension work which shall be carried on in cooperation with the United States Department of Agriculture - - - That cooperative agricultural extension work shall consits of the giving of instruction and practical demonstrations in agriculture and home economics to persons not attending or resident in said colleges in the several communities, and imparting to such persons information on said subjects through field demonstrations, publications, and otherwise; and this work shall be carried on in such manner as may be mutually agreed upon by the Secretary of Agriculture and State agricultural college or colleges receiving the benefits of this Act."

Through the acceptance of the terms of this Act by the Oklahoma State Legislature at the following session, the Agricultural and Mechanical College became the head of such cooperative extension work in Oklahoma.

The Reserve Officers Training Corps of the College was created as a result of an Act of Congress adopted in 1916 providing that:

"The President is hereby authorized to establish and maintain in civil educational institutions a Reserve Officers' Training Corps which shall consist of a senior division organized at universities and colleges requiring four years of collegiate study for a degree, including State universities and those State institutions that are required to provide instruction in military training under the provisions of the Act of Congress of July 2, 1862, donating lands for the establishment of colleges where the leading object shall be practical instruction in agriculture and mechanic arts, including military tactics, etc."

The Sixty-Fourth Congress adopted what is known as the Smith-Hughes Bill, entitled:

"AN ACT to provide for the promotion of vocational education; to provide for cooperation with the States in the promotion of such education in agriculture and the trades and industries; to provide for cooperation with the States in the preparation of teachers of vocational subjects; and to appropriate money and regulate its expenditure."

SOURCES OF REVENUE

The Agricultural and Mechanical College derives support from both Federal and State Governments:

1. A fund derived from the United States Government, known as the "Morrill Fund". This fund can be expended only for instruction of students in literature, languages, the sciences, and, by recent amendment, to prepare school teachers in the principles of agriculture and home economics.

2. The United States Government funds for investigation of scientific and agricultural matters of importance to farmers, and for publishing the results of such tests and experiments, known as the Hatch and Adams Funds. These support the Oklahoma Agricultural Experiment Station.

3. A fund derived from the rentals of public lands donated by Congress to the Oklahoma A. and M. College under the Enabling Act granting statehood to Oklahoma, known as the "Land Lease Fund". This fund may be used for operating expenses of the College proper.

4. A fund appropriated annually or biennially by the State for buildings, repairs and extensions to the permanent equipment of the A. and M. College.

5. The Smith-Lever Bill, adopted by the Sixty-Third Congress, provides increasing support for cooperative agricultural extension work for a period of ten years, when the permanent basis of this support is reached. This fund is dependent upon cooperative support by the State and is available only for agricultural extension work.

6. An allowance established by an Act of Congress organizing the Reserve Officers Training Corps, and which provides pay and uniforms to certain military students under prescribed restrictions.

INSTRUCTION FOR TEACHERS

The A. and M. College prepares teachers of science, of the industrial subjects and of related common branches.

The College has taken full advantage of the Smith-Hughes

Bill, making provision for the training of teachers in agriculture, the trades and industries. Prospective teachers of vocational branches may be assured that they will receive the fullest opportunity at A. and M. College to prepare for this work.

To supply the State with trained teachers in industrial subjects, as contemplated by existing State laws, a School of Education is maintained.

The Summer Normal.—To further supply the demand in Oklahoma for trained teachers, the A. and M. College conducts a complete summer normal institute for teachers. Members of the College Faculty are available as instructors, and specialists of note are also employed to assist in making the instruction of greatest value. Attendance upon the Summer Term assures full credit for training demanded under the school law quoted above.

By an Act of the State Legislature, A. and M. College is enabled to issue teachers' state life certificates.

Acceptance by the State of the terms of the Smith-Hughes Bill opens great opportunities for the A. and M. College. This measure provides for the training of teachers, supervisors and directors in agriculture, home economics and the trades.

LAND, BUILDINGS AND EQUIPMENT

The A. and M. College campus and farm embrace a tract of 1,000 acres.

The present buildings were erected by the State at a cost of more than half a million dollars, and they are equipped with the latest and best appliances and scientific apparatus. All buildings are steam heated, electric lighted, and have sewer connections.

The Sixth Legislature appropriated $200,000.00 for new buildings at A. and M. College, and of this sum $100,000.00 will be used for an Armory-Gymnasium, and a similar amount for a Science Hall, which are now under course of construction.

The Seventh Legislature appropriated $305,000.00 for new buildings which will be used in constructing a library, woman's building, dairy barn, purchasing new equipment, and making additional improvements.

The principal buildings are:

Engineering Building.—Erected 1912. Cost $74,994.50. Three stories. Covers 160 by 80 feet. Reinforced concrete and brick with stone trimmings. On the ground floor are located the steam and hydraulic laboratories and boilerroom, the electrical laboratory, the civil engineering laboratories for testing cement, masonry and steel, rooms for surveying instruments, storage-batteries, standardizing room, men's locker room, and office. On the next floor are the engineering library, the physical laboratory and lecture room, four other lecture rooms for the various departments, and rooms for photometry, physical apparatus, stock and women's lockers. On the top floor are the quarters for the Department of Architectural Engineering, consisting of a lecture room, library and reading room, and large drafting room. There are also on this floor four drawing and lecture rooms for the use of other departments, rooms for records, and offices for instructors.

Shop Building.—Erected 1912. Cost $4,420.00. Stone and brick building. Forty by 200 feet; for a depth of 80 feet it is two stories high, and the balance one story. Provides accommodations for the carpenter, machine and blacksmith shops and foundry, and has up-to-date toolrooms, etc., complete.

Heating Plant.—Erected 1912. Cost $40,000.00. Furnishes heat and light for all College buildings and power for the shops.

Chapel Building.—Erected 1912. Cost $84,075.28. Covers a ground area of 97 by 150 feet. Reinforced concrete and brick with stone trimmings. Sloping floor and large balcony. Roomy stage, with dressing rooms and accessories. Seating capacity 2,500.

Woman's Building.—Erected 1910. Cost $62,000.00. Contains gymnasium, dining hall and kitchen, reception hall, parlor, classrooms for domestic science and domestic art, and living rooms for the accommodation of girl students. Rooms are electric lighted, steam heated, and all halls are equipped with lavatories and baths. The Dormitory is under supervision of a matron.

Boys' Dormitory.—Erected 1910. Cost $25,000.00. Brick

construction. Three stories. Equipped with all modern conveniences.

Chemistry Building.—Erected 1898. Cost $12,000.00. Two-story brick structure with basement. Main portion 64 by 42 feet, wing 54 by 32 feet. Houses chemistry laboratory of the Experiment Station, classrooms and laboratories for instruction in agricultural and general chemistry.

Library Hall.—Erected 1901. Cost $48,417.42. Brick and stone building, two stories and basement, 76 by 72 and 111 by 65 feet. It is used in addition to accommodation of library and reading rooms, for the Departments of Zoology and Veterinary Medicine, Drawing and Art Work, with lecture rooms, toilet rooms, etc., in the basement.

Central Building (the original building of A. and M. College).—Erected 1892. Cost $25,000.00. Two-story brick and stone building with basement, 66 by 60 feet. Used for class rooms and printing plant.

Morrill Hall.—Erected 1906. Cost $74,600.00. Three stories. Brick and stone construction, 76 by 166 feet. Named in honor of Senator Justin S. Morrill, by Act of the Legislative Assembly providing for its construction. Contains quarters for administration and business offices of the A. and M. College and Agricultural Experiment Station, and lecture rooms and laboratories for the Departments of Agronomy, Animal Husbandry, Horticulture, Botany and Entomology, and the central headquarters of the extension forces.

Dairy Building.—Erected 1904. Cost $7,947.74. Brick structure of two stories, 60 by 30 feet, and one-story addition of 50 by 32 feet. Contains classrooms, laboratories, and a commercial creamery for experimental and instructional purposes.

Agronomy Building.—Erected 1906. Cost $11,182.91. Two-story brick building. Houses Military Department, classrooms, farm machinery laboratory, etc. Gymnasium occupies one wing of building.

Livestock Judging Pavilion.—Erected 1910. Cost $15,239.93. Two-story brick structure, affording accommodations for study

of the fine livestock owned by the College. Contains classrooms in addition to an amphitheater with a seating capacity of 500, and an arena 50 feet square.

Old Engineering Building.—Erected 1902. Cost $8,000.00. Brick and stone structure of two stories and basement. Occupied by Departments of Music and Business Training.

Greenhouse.—Erected 1909. Cost $5,000.00. Part of the equipment of Departments of Horticulture and Botany.

Poultry Plant.—Main building for laboratories and classrooms was built in 1913 and cost $2,978.00. In addition the plant comprises more than a score of colony houses, a long laying house and a complete equipment.

Apiary and Insectary.—Erected 1913. Cost $1,936.30. Houses laboratories for entomology and beekeeping. Cupola is fitted with modern insect trap to aid in study of winged insects.

Barns.—Brick barn, 60 by 95 feet, cost $7,500.00; dairy barn, cost $8,000.00; sheep barn, $8,000.00; hog barn, $1,000.00; veterinary barn, cost $2,402.35.

REQUIREMENTS FOR ADMISSION

All persons who desire to enter any school of the College should make application to the Registrar as early as possible before the opening of the first or second semester. Those who desire to be admitted by certificate should make application as soon as possible after their graduation from the high school. To all applicants a blank will be furnished which they are expected to fill out and file with the Registrar in advance of entrance. This certificate must give in detail, concerning each subject which the applicant has studied in the school, the length of time in weeks, the number of recitations per week, and the grade or mark indicating his proficiency. Upon receipt of this certificate a permit to register will be sent the applicant by the Registrar in advance of his coming in September. This will greatly facilitate the work of entrance. The student will present this permit at the registration room and will not be compelled to wait his turn to meet the Entrance Committee.

Degree Courses

Applicants for admission to the degree courses should be 16 years of age or over and of good moral character. They will be required to present 15 units of entrance credits for admission to the Freshman class. The 15 units required are distributed in the most advantageous way for admission to the various College courses in the Schools of Agriculture, Engineering, Home Economics, Science and Literature, Education, Commerce and Marketing and Veterinary Medicine, as indicated in the following table. One who offers 14 such units will also be admitted as a Freshman, but will be conditioned in 1 unit. Such deficiency must be made up by the end of the second year that the student is in attendance.

	Agriculture	Engineering	Home Economics	Science and Literature	Education	Commerce and Marketing	Veterinary Medicine
English	3	3	3	3	3	3	3
Algebra	1	1½	1	1½	1	1	1
Plane Geometry	1	1	1	1	1	1	1
Solid Geometry		½					
*Science	1	1	1	1	1	1	1
**Foreign Language		1		1			
Social Science Inc. History	1		1		1	1	1
Required	7	8	7	7½	7	7	7
***Electives	8	7	8	7½	8	8	8
Total	15	15	15	15	15	15	15

*Physics required in Agriculture, Engineering and Science and Literature courses.

**Modern language or Latin required in Science and Literature course.

****To make up the total of 15 units the applicant may use as electives any accredited work satisfactorily completed in an accredited high school. A unit is defined to be the work done in an accredited high school or academy in five recitation periods a week for one school year.*

Deficiencies

The course in the Secondary School of the A. and M. College, offered in connection with the College, gives every needed opportunity for students of the College to make up anything lacking in their preparation for entrance. All such entrance deficiencies must be made up by the end of the second year that the student is in attendance.

Advanced Standing

Applicants from other institutions of approved standing who offer collegiate courses or professional courses in excess of the requirements for admission, will be assigned such advanced stand-

ing as may be determined by the Committee on Advanced Standing.

Before considering the claims of any applicant for advanced standing, the committee will require, in addition to the data, specified above (Requirements for Admission), official certificate showing: (*a*) That the applicant has been honorably dismissed; (*b*) what admission requirements were satisfied by the applicant in the institution from which he comes (and for this purpose, in addition to the certificate, a catalog of date concurrent with his admission will be required); (*c*) the duration of his attendance; (*d*) the character of the laboratory work done in preparatory schools. (This can be satisfied by submitting the student's laboratory notebook.)

All claims for credit must be specified at the outset. Claims not so specified will not be considered after the formal determination of credit, unless the work on which they are based was done after the previous claim was filed.

A. College Credit for College Work:

Students transferred from other colleges will be admitted to the same standing in this College, provided that (*a*) the admission requirements of the college from which the transfer is made are equivalent to those of the Oklahoma A. and M. College; (*b*) the courses taken are standard college courses equivalent to those offered by the Oklahoma A. and M. College; (*c*) the maximum amount of credit granted shall not exceed that obtainable during the same period of time at this College, i. e., 16 credits per semester; (*d*) if the bachelor's degree is sought, the total credit shall not exceed 96 semester hours, one year of resident work being the minimum requirement for a degree.

B. College Credit for Normal School Work:

Students who have completed work of college rank in State Normal Schools may receive college credit on the following conditions: (*a*) Students who have completed the equivalent of 15 standard entrance units before entering a State Normal School, and who have been graduated from a two years' professional course in such a school may be granted 60 hours credit; (*b*) students who enter normal schools without completing the equivalent of the 15 standard units may receive advanced standing for

that work only which remains after the entrance requirements of this College have been satisfied. In such cases the total amount of college credit shall not exceed 30 semester hours.

C. College Credit for Preparatory Work:

Students who have excess credits for admission to College may be allowed college credit on the following conditions: (*a*) The work on which college credit is sought must have been done, after graduation from a high school, in a postgraduate course extending over at least one semester; the credit allowed shall not be more than half the time given, i. e., one year of such work in high school shall not be crediteda smore than one-half year of College work; (*b*) credit so listed is provisional and is formally confirmed by the Registrar only in case the student maintains during the first semester of resident work an average grade of 75 or better.

D. Advanced standing may also be obtained by written examination, conducted in the usual manner, after the applicant has satisfied the head of tthe department concerned that he has had sufficient instruction in the subject. The grade shall be reported to the Registrar.

Special Students

Persons of mature age who do not possess all the requirements for admission and are not candidates for a degree will be permitted to enter any of the courses in the different schools upon giving satisfactory evidence to the Dean of that school that they are prepared to take advantageously the subjects which they desire. If they desire to take advanced subjects, such as are offered in the Junior and Senior years, they must show special preparation or special necessity for such courses. Persons applying for admission on the above basis are required to present a detailed statement of their preparatory work at the time of their admission.

Secondary School of the A. and M. College

Non-Vocational Course—College Entrance

The minimum age limit is 14 years. Applicants for admission living in towns having high schools must be 16 years of age.

An eighth grade diploma or certificate of graduation from the common schools admits.

Other applicants must pass a satisfactory examination in reading, spelling, penmanship, geography, United States history, grammar and arithmetic.

Vocational Courses—Agriculture, Home Economics and Trades

Age minimum is 14. Scholarship is the same as for the Secondary School, except that applicants may be admitted with deficiencies who have finished the seventh grade or equivalent, and who are able by reason of age, maturity and experience to do the work prescribed.

Business Course

Application for admission to the business course must have completed eighth grade subjects and be 18 years of age.

REQUIREMENTS FOR GRADUATION

Leading to Bachelor's Degree

In all of the four-year courses of study leading to a degree, a student must earn 128 credits, exclusive of any credits given for military science and physical training, before being eligible for a degree. A credit is one hour of theoretical work carried for one semester, three hours laboratory work being equivalent to one credit. Students are expected, as a rule, to carry 16 hours credit work per semester, but by special arrangement with adviser and Dean the number taken may be varied from 12 to 20 credits per semester.

Requirements for Master's Degree

1. Conditions of Candidacy.—A graduate of any school of this College, or of another institution in which the requirements for bachelor's degree are equivalent, may become a candidate for the correpsonding master's degree by making application on a blank provided for the purpose.

2. Applications.—An application in outline form shall be submitted in triplicate, for approval not later than September 15, to the Committee on Graduate Courses, signed by the major professor, showing the nature and amount of major and minor work in theory and practice hours and equivalent credit hours. (Blank outlines may be obtained from the committee.)

On the reverse side of said outline the major and minor subjects (if not designated in the College catalog) shall be given in detail, including all topics to be considered. Subjects in minor work shall be approved, with signature, by heads of departments concerned.

3. Amount of Work.—The minimum requirement shall be not less than 30 credits.

In addition to this, a thesis upon some subject connected with the major study is required, upon recommendation of the major professor. An outline of the subject must be submitted to the committee for approval before October 15. The thesis must cover some line of original research work under the supervision of the major professor, and the thesis as a whole must be approved by the major professor and the dean of the school.

Two typewritten copies of the thesis, in specified form, shall be deposited, one with the major professor, and one with the College Librarian, on or before May 15.

4. Nature of Work.—The work shall be arranged into major and minor subjects; at least one-half of the work shall be in the major subject. The remainder of the work shall be done in other departments than that in which the major work is done, and it must be of an advanced nature.

5. Residence.—One semester's residence work is required of every candidate. Graduates of this College may be permitted in special cases to obtain one semester's credit at any other approved institution.

6. Degrees.—The degrees offered are of two kinds, viz., academic and professional. The academic degrees are Master of Science in Agriculture (M. S. Agr.) and Master of Science in Engineering (M. S. E.).

Professional Degrees in Engineering

A graduate of the School of Engineering who has been engaged in acceptable professional work for a period of not less than four years since graduation, who has been in responsible charge of such work for at least one year of this period; and shall present a satisfactory thesis, may be recommended to the Board of Regents for one of the following professional degrees: Me-

chanical Engineer (M. E.), Electrical Engineer (E. E.), Civil Engineer (C. E.), Architectural Engineer (A. E.).

A candidate for a professional degree must file with the Committee on Graduate Courses, at least one year before the granting of such degree, and include a detailed statement of his experience. If this record is approved, the committee will turn same over to the head of the department under whom the work for the degree most properly falls. The head of this department will then confer with the applicant in regard to the thesis and will require monthly reports from him thereafter as to his progress. Two bound copies of the thesis must be filed not later than April 1 of the year in which he proposes to qualify for the degree.

7. Fees.—Before receiving a degree, the candidate shall pay a diploma fee of $10.00 and any unpaid laboratory fees.

COST OF ATTENDANCE

A fee of $2.50 will be collected at the beginning of each semester to cover actual expenses incident to breakage and use of materials in the various laboratories of tthe College. There will be no refund.

Board and Rooms

Furnished rooms in the Woman's Building or in the Boys' Dormitory (including heat, light, water, etc., two students occupying each room) are provided at $3.00 per month each, payable in advance. Application for dormitory accommodations must be made in writing. Those occupying rooms in dormitories must furnish towels, bed linen and covers. The two dormitory buildings contain bathrooms and all necessary facilities, and are thoroughly sanitary, heated by steam and lighted by electricity.

Board in the College dining hall is provided on the cafeteria plan at actual cost. The student pays for what he selects and the cost per student varies according to the amount he eats. The average cost is about 23 cents a meal at the present time. The cafeteria plan provides opportunity for a larger menu from which to choose, and in general is more satisfactory than the plan of having a set table and no choice.

Board with room in private families can be obtained for $5.50

to $6.50 per week. Furnished rooms, $3.50 to $5.50 per month, if two occupy the room.

Other Expenses

The total cost of attending the A. and M. College courses embraces the items of board, books, clothing and minor incidental expenses of a personal character. These may be safely estimated at $250.00 to $350.00 for nine months. Sixty-three percent of the students materially reduce their expenses below the figures given by working in the several departments of the A. and M. College and in the City of Stillwater, and many earn all personal expenses.

Amount Required to Begin

Those students of limited means desiring to enter the A. and M. College should have some $90.00 available with which to bear the first items of personal expense and make sure of some months consecutive study. This amount is estimated for young men to include:

Board and room, three months	$ 67.50
Books, etc.,	8.00
Incidentals	5.00
Personal expenses	$ 80.50

With such sum in hand or available, the industrious student may, by his own efforts, secure three or four months, or even a longer period, of study in the A. and M. College. The same estimates will apply to young women if cost of uniform be deducted. Extravagance in all forms is discouraged. Freshmen and Secondary School boys must supply themselves with gymnasium suits costing $4.00. Girls of the Secondary School, Freshman and Sophomore classes must supply themselves with gymnasium suits costing $6.00.

A senior division of the Reserve Officers Training Corps has been established under the rules of the War Department. This entitles Freshmen, Sophomores, Juniors and Seniors who take drill to receive from the Government, free of charge, a complete uniform, consisting of cap, shirt, coat, breeches, leggins and shoes.

In addition to the above, Juniors and Seniors who take the advanced course in military science will be paid at the rate of $12.00 per month by the Government.

Approved Rooming Houses

Comfortable and desirable homes in Stillwater are listed as "approved rooming houses" for male and female non-resident students by the Faculty Committee on Assignment to Rooms. Students are not permitted to room in other than approved rooming houses.

Advisers to Students

To bring about a closer relation between students and members of the Faculty and parents, and for the purpose of safeguarding every interest of the individual student, the A. and M. College has adopted an "advisory system" which applies to all students. A small number of students are assigned to each instructor, who is known as their adviser for the year, and whose duty it is to know each of them personally, and to meet them from time to time. The adviser endeavors to become familiar with the conditions surrounding his students. In many instances he selects studies suited to the student's need or adjusts the student to his work and surroundings. Parents should not hesitate to write to advisers or to the President concerning matters that may have to do with the student's comfort and progress in their studies.

Care of Health

The health of all students is a matter of chief concern to the officers of the A. and M. College. The rules require that all cases of illness be reported promptly. A responsible physician is employed who attends all students without charge in cases of illness or injury received in the line of duty, except cases of major surgery. Sickrooms for the better accommodation of boys and girls suffering from illness are provided, without additional cost, in each of the dormitory buildings.

All students have access to the separate gymnasiums for boys and girls. Games and sports are encouraged for their mental relief and the physical relaxation afforded. These exercises, taken indoors and in the open air, followed by baths, and with the privilege of consultation on matters of personal health, afford valuable safeguards to the health of every student who attends the A. and M. College.

Help

Students are employed on the farm, in the creamery, dining hall, the Printing Department and elsewhere. This, in connection with such opportunities as are offered in the city, has enabled a very considerable number of students practically to make their own way through their college courses. The amount a student can earn depends almost entirely upon his thrift and energy, and the time he can spare from his studies. The rate of pay is 20 cents per hour. Skilled labor commands a better rate of pay—some lines of expert work netting the students 25 cents an hour. It must not be gathered that the A. and M. College engages to afford employment sufficient to enable every worthy young man to complete the course without other resources. With the growth of the institution has come an increased demand for this employment which it is impossible to meet in full, yet very few students have been compelled to leave College in recent years on account of inability to secure work.

GENERAL INFORMATION

The seat of the Oklahoma Agricultural and Mechanical College is Stillwater, in Payne County, a "college town" of 5,000 people, most beautifully and healthfully situated at an elevation of 915 feet above sea level. Payne County was one of the seven original counties of Oklahoma Territory and is named for David L. Payne, the noted pioneer, who first settled near the present site of the College. Stillwater citizens and students of the A. and M. College enjoy the advantages of electric lights, telephones, free delivery of mail, a city water system, sewerage, paved streets, and a very complete system of brick walks shaded continuously by trees. Stillwater is on the Santa Fe Railroad (Arkansas City and Pauls Valley branch). The main connections are at Guthrie, Pawnee, Shawnee, Cushing and Davenport.

Moral Influences

Eight leading churches are represented in Stillwater and the students are encouraged to attend and participate in their services. As a matter of fact, the Sunday schools and the young people's societies of the several churches in Stillwater are sustained very largely by the students from the A. and M. College.

A Young Men's Christian Association and a Young Women's Christian Association are actively engaged in the numerous and beneficial lines of work characteristic of these organizations among students. These student organizations are not merely helpful to their membership, but exert a wholesome influence on the moral life of the A. and M. College.

Grades and Reports

The semester grade is the average of the daily grade and the grades made in tests, and in making up the final grade for the semester, the semester grade shall count two-thirds and the final examination grade one-third. Reports showing the grades and standing of students are sent to parents and guardians at the end of each semester. Attention is particularly directed to these reports; they are the best indication of the work and standing of the student.

Students receiving a condition in a subject must remove the condition before the end of the third week of the following semester.

Awarding of Points and Honors

Points shall be awarded, exclusive of military and physical training in the Freshman and Sophomore years, in accordance with the following:

Grades between 93 and 100, 3 points per credit hour.

Grades between 85 and 92, 2 points per credit hour.

Grades between 75 and 84, 1 point per credit hour.

Grades between 70 and 74, 0 points per credit hour.

Requirements for Graduation

Exclusive of military and physical training in the Freshman and Sophomore years, 128 hours credit and 96 points.

Requirements for Graduation in More or Less than Four Years

No student is permitted to register for more than 16 hours or less than 12 hours in a semester of a regular College course for which a degree is granted, exclusive of military and physical training in the Freshman and Sophomore years, with the following exceptions: (*a*) The privilege to register for more than 16 hours is denied if in the previous semester any of the Grades E. F, or an avoidable I has been received, or less than 16 hours have

been successfully completed; (in the case of an unavoidable grade I, arrangements for its removel, within a definite, reasonable time, must be made satisfactory to the student's adviser and dean); (*b*) students free from the limitations of rule (*a*) may register for one extra hour above 16 hours for every 2 points earned in the previous semester in excess of 12 points for not more than 20 hours, and 1 extra hour above 20 hours for every 3 points earned in excess of 20 points; (*c*) requirements for advanced standing concerning credit hours and points, extra hours, and graduation, shall be determined by the Committee on Advanced Standing from grades and work presented in proportion to the time required to complete the course; (*d*) students earning less than 12 points in a semester may register the next semester on probation as follows: The maximum of 16 hours or the minimum of 12 hours may be taken on condition that upon each monthly report there are no grades E, F, or avoidable I; (*e*) students failing to meet the requirements of (*d*) must reduce the amount of their work as follows: For every point below 12 points earned in the previous semester, 1 hour reduction from the total of 16 hours, adjustment to be made by the student's adviser and Dean; (*f*) failure to carry 12 hours with no grades E, F, or avoidable I, shall render student subject to reduction to the next lower class by the Registrar, or upon the approval of the President, temporary suspension.

Honors

Class honors are awarded each semester to those students earning 35 points or more during that semester. They shall be designated Freshman, Sophomore, Junior or Senior, first or second semester honors.

First final honors for 85 points earned in the Freshman year.

Second final honors for 170 points earned in the first two years.

Third final honors for 255 points earned in the first three years.

Honors for 300 to 339 points earned at the end of the Senior year.

High honors for 340 or more points earned at the end of the Senior year.

The names of all students earning honors will be printed in a special bulletin to be designated "HONOR BULLETIN" at the beginning of each semester and at commencement time.

The Honor Bulletin for each year will be included in the College catalog of each year.

Theses

In some departments a thesis is required for graduation, and in other departments it is elective. Students intending to write theses must select the subject not later than the last week of the first semester, the subjects to be approved by the departments having charge of the work.

Diplomas

Each candidate for graduation in the four-year courses shall deposit with the Registrar $2.50. Candidates for graduation in the Business Course and in the Vocational Courses shall deposit with the Registrar $1.00 before the student is recommended for graduation.

Library

The College library consists of all the books belonging to the College. The Experiment Station library is correlated with it. The library occupies five large rooms and an office in the Library Building. The first and largest room is used as a reference and reading room, and contains all the general reference books, magazines, periodicals, etc. The other four rooms are used as stack rooms. The library is open twelve and one-half hours each day and three hours on Sunday. The library is classified according to the Dewey Decimal System, and indexed in a dictionary card catalog. The library is a depository for all Government publications. There are now 26,503 bound volumes in the library. There are over 90,000 unbound pamphlets, which are now being aranged and classified for quick reference work. In addition, the library possesses over 50,000 unbound periodicals, which are rapidly being bound. The library receives 490 of the leading newspapers and periodicals of the United States. Twelve of the large dailies of the United States are kept on the newspaper racks for the use of the students, and most of the magazines indexed in the Reader's Guide are on our shelves. Daily attendance records for the past year have run as high as 1,000.

Purpose.—It is the purpose of the Librarian not only to supplement the work of every department, but also to make the library the center of all literary activity of the College. Every effort is made to assist the students in the use of the reference books, catalogs and indexes, and to familiarize themselves with the best books and use of bibliographies.

Valuable Gifts.—The library has been enriched by the gift from the Carnegie Institution of Washington of all their publications, and also by the studies from the Rockefeller Institute of Medical Research. Each of these great institutions has placed the library on the "Omnia List". Other valuable gifts include several thousand periodicals and several thousand books.

Regulations.—Books may be drawn by all the officers and students of the College and by others having special permission. Books are drawn for a period of two weeks. General reference, reserve books, periodicals and dictionaries must be consulted in the readingroom, and not drawn from the library. Citizens and visitors, whether connected with the College or not, are invited to make free use of the reading and reference room, and assistance in reference work will gladly be given them.

Library Science Course—Course A.—In connection with the English Department, a course in Elementary Library Science is given. This course does not aim to fit students for library positions of any kind, but to familiarize the students in the use of the library and general reference books in connection with their college work. Laboratory work is given in the library in connection with the lectures and recitations. This course is required of all Freshmen.

Course B.—This is a general course in Library Science, giving the student a deeper insight into the use of the library and helping him to find the material wanted in the quickest, most logical way. It includes a brief study of the Dewey Decimal Classification, the card catalog and other tools of the library. Much time is spent on the use of reference books, and some attention is given to library methods. This course is of special benefit to those contemplating high school teaching. This is a lecture course of one hour per week with some practice in the library. It carries with it one hour theory credit. It is optional with all classes and is given by the Librarian. Scheduled for Tuesday, sixth hour.

Literary and Other Societies

General literary societies are always active among the students. The Philomathean and the Omega Literary Societies enroll a large percent of the entire student body, and, in addition, a number of clubs and societies have been formed by students specializing in science, engineering, pedagogy, agriculture and domestic science for the purpose of supplementary work and investigation. The Athletic Association has charge of all local College sports, the "Tug-o'-War" and Field Day exercises, and of the interest of the institution in the interscholastic and intercollegiate meets. The Oratorical Association has charge of the representation of the A. and M. College in the preliminary intercollegiate oratorical contests.

Of Interest to Girls

At the Oklahoma Agricultural and Mechanical College, fully one-third of the student body is composed of women, and we find them enrolled in all the courses except that of veterinary medicine, the majority, however, being found in the School of Home Economics. Besides the great number of women majoring in this line of work, practically all others at some time in their College courses elect several subjects in this school. The work in this particular school has developed rapidly in the past three years, until the courses now offered compare very favorably with the home economics work in older and larger institutions. Three major courses of study are being offered so that any young woman, by choosing one of these and arranging her electives in the right sequence, can fit herself not only for a bigger life in her own home, but for a vocation also. Women who have had this training find large opportunities for service. Teaching is one of the greatest now, because of the demand, increased by the passage of the Smith-Hughes Act, under which Act large sums of State and Federal money are being appropriated for vocational teaching. Work in the extension field is rapidly demanding the trained college expert for Federal, State, county and city openings. Social service is also calling for women trained in this work. Hospitals are placing more emphasis on proper feeding and demanding better prepared dietitians. Mercantile establishments are demanding textile experts, and so on, we might list indefinitely a long line of occupations open to these women. In view of the

fact that this work is increasing so rapidly, the last Legislature appropriated $117,000.00 for a new building to be ready as soon as possible, and devoted to the enlargement and further development of this school.

Athletics, Military Drill and Discipline

The constant purpose of the A. and M. College is to develop "sound minds in sound bodies" and to train the moral faculties. Clean sports and games on the field cultivate the mental and moral sides of the individual as well as the physical side, while affording needed occasion for relaxation and the repair of muscular and nerve tissues. Ball games and track athletics are encouraged by the A. and M. College authorities.

The Gymnasium for Men is under the supervision of the Physical Director. The exercises in the Women's Gymnasium are directed by competent lady instructors.

The State Interscholastic Track and Field Meet is held on the A. and M. College grounds annually, to which the schools of all sections of Oklahoma are invited.

Baseball and football are provided with suitable grounds, and tennis courts are at the disposal of students.

Military drill is given during the first two years of the College course for its physical effects, and as required by the Federal law establishing this and other similar colleges. The good results of this drill are quickly noticed in the improved health and carriage and deportment of those coming under its helpful influence. Young men, especially, need such training to give them the erect carriage and strong physique that marks the man of military training.

A commissioned officer of the United States Army is assigned to duty at the A. and M. College as Commandant of Cadets. Instruction in military science is provided for all male students, and infantry drill is given in the field movements and under arms. Arms, accouterments and ammunition are supplied by the Federal Government. The military discipline is mild but firm, and cultivates habits of punctuality, alertness and the sense of personal responsibility. Military training, such as taught in the A. and M. College, is not solely for the purpose of training young men for an army career; it really is preparation for civil life.

The discipline and courtesy which grow out of the relation of military men among themselves, and the lessons learned in keeping "fit to fight" are fine additions to the regular College study. A rifle club, organized by volunteers, is an interesting feature of military training.

The Federal measure establishing the Reserve Officers' Training Corps provides free uniforms to all cadets taking three hours drill per week, and to those taking the advanced course of five hours per week, $12.00 per month, or $144.00 per year, in addition.

Honor Students for 1917-18

The honor students for the session of 1917-18 were as follows:

School of Education.—E. C. Sherwood, 96.66.

School of Engineering.—Wayne Fish, 84.64.

School of Home Economics.—Lucy Swalley, 92.36.

School of Science and Literature.—Ruby Lauderdale, 89.31.

School of Education.—Magdalen Winkelman, 92.45.

Lewis Leslie won the Otey prize, given by Financial Secretary M. J. Otey, to the student who overcame the most serious difficulties in his college course.

Prizes in Public Speaking

Old Line Oratorical.—First Prize—$25.00, Bishop Clothing Company, Stillwater, won in 1918 by Martyn McMillan; second prize—$10.00, Rexall Drug Company, Stillwater, won in 1918 by Leo B. Wertz.

Intercollegiate Debate.—First prize—$15.00, Peck Bros. and other alumni, won in 1918 by Martyn McMillan; second prize—$10.00, Mr. M. J. Otey, Stillwater, won in 1918 by William Rosenbaum; third prize—$5.00, Dr. F. B. Olentine, Chicago, won in 1918 by Don Foster.

Freshman Declamation.—First prize—$10.00, Katz department store, Stillwater, won in 1918 by Clara Howard; second prize—$5.00, Tiger Drug and Book Company, Stillwater, won in 1918 by Opal Skaer.

Freshman Extempore Speaking.—First prize—$10.00, Katz department store, Stillwater, won in 1917 by Leo B. Wertz; second prize—$5.00, Stillwater Furniture Company, Stillwater, won in 1917 by Frank Martin.

SCHOOLS OF INSTRUCTION

The schools of instruction are planned and grouped to suit the natural needs and desires of the students in attendance at this institution, as indicated by the experience of several years past. Formerly the studies offered by the several departments of the College were grouped in "Divisions". As a result of recent developments and changes these are now known as "Schools" and their subdivisions are termed "Courses", thus the School of Engineering has its Electrical Engineering course, Mechanical Engineering course, etc.

Under the present organization the studies of the College are grouped into the following Schools:

1. The School of Agriculture.
2. The School of Engineering.
3. The School of Home Economics.
4. The School of Science and Literature.
5. The School of Education.
6. The School of Commerce and Marketing.
7. The School of Veterinary Medicine.

THE SCHOOL OF AGRICULTURE

HENRY G. KNIGHT, *Dean*

COURSES OF INSTRUCTION

The following courses of study, designed to meet the requirements of students of the various classes, have been organized in the School of Agriculture.

General Course in Agriculture

This course of study leads to the degree of Bachelor of Science (Agriculture), and offers scientific training in agricultural bacteriology, agricultural chemistry, agricultural economics, agricultural education, agricultural engineering, agricultural journalism, agronomy, animal husbandry, dairying, horticulture, entomology, poultry husbandry and veterinary science. In addition to these specified subjects relating directly to agriculture, it embraces a general training in chemistry, botany, bacteriology, zoology, English and other branches which have an application in agriculture and which are designed to give a broad, general education for the man who wishes to devote his time and talent to agricultural pursuits, investigations or teaching.

The field is so broad, however, that it is impossible for any student in four years to take advantage of all the lines of work offered. As will be seen in the curriculum of studies, the work in the Freshman, Sophomore and Junior years is very much the same for all students, giving a maximum of the necessary fundamental studies. The Senior year, however, gives much liberty for selection and for elective studies in the particular branch of agricultural science in which the student may be interested.

Laboratory Exercises and Practice Work

It has been found that the students in the regular four years course in agriculture divide themselves about equally into two classes on the basis of their future work. Those planning to return to the farm or to engage in demonstration work are desirous of more practice work in all departments, while those desiring to

take advanced studies with the view of becoming instructors and research specialists, require more technical training in the classroom and laboratory.

In order to meet in part at least the demands of these two legitimate classes of students, there will be offered an opportunity for those wishing the more practical training to use at least a part of the required laboratory periods in practical work on the farm. In other words, work on the farm, in the Experiment Station, in the creamery, the orchard, the garden, the stock barns and the poultry plant for at least two half days each week may be substituted for required laboratory work. The labor will be paid for at the rate of 20 cents per hour. The labor will be performed under supervision, and as soon as a student has become proficient in any department he will receive due credit for the practice work in that department, and will be passed on to other departments. Credits may be made in this manner during the summer months by working on the College farm and in other departments.

Four credits may be allowed for this practice work during each semester of the four years course. This credit is to be arranged for in consultation between the heads of departments and the dean's office, to be approved by the President.

This practice laboratory work is entirely optional with the student. Work must be done in a satisfactory manner or credit will not be given, and no student will be continued in practice work who is not making a proper use of the time spent in the department.

Teacher Training

The Smith-Hughes Act passed by Congress provides funds for secondary vocational education. The opportunities offered for teachers of vocational subjects are unparalleled. Already a demand for trained teachers is noted which, it seems, cannot be met unless more students prepare themselves to teach these subjects. The course in General Agriculture for Teachers, given on another page, meets the requirements for teachers of Vocational Agriculture under tthe provisions of the Smith-Hughes Act.

To meet the present emergency, students who have elected other courses in the School of Agriculture, and who present 13 hours of work from the School of Education, of which at least 6

hours must be prescribed courses in agricultural education, will be given permission to teach vocational agriculture in secondary schools of the State receiving Smith-Hughes money for vocational agriculture. (Provision subject to change without notice.)

Secondary Vocational Agriculture

This course is designed for young men from the farms of Oklahoma who have not had the time nor the inclination to take a regular course in the high schools of the State, to be followed by a four-year course in scientific agriculture in this institution, yet who desire a training in the practical application of the science of agriculture.

Under the terms of the Smith-Hughes Act, passed by Congress in 1917, provision is made for the application of Federal funds to the support of courses designed to train students who have passed the eighth grade work in the schools of the Nation, in the practical application of the principles of agricultural science. This is not a new idea in education, but its application in the past has not been as far-reaching as could be desired. Under the present law the application is nationwide, and should have the effect of giving to men who wish to make agriculture their life work an opportunity which could hardly have been dreamed of a few years ago.

The course herein offered complies with the provision of the law and is an intensely practical course, designed to lead students back to the farms of the State with the knowledge of the best practices and with a vision of the possibilities in their chosen vocation. With this end in view, the work is organized on a real practice and production basis as far as circumstances and conditions will permit. The course covers two years work of nine months each, while supervision of projects taken up by the students covers the full twelve months of each year.

The Legislature has provided two scholarships of $100.00 for each county, each to run two years, and is made available for students taking this course. Write for information to the Registrar, or see your county agents for information.

Short Course in Practical Agriculture

This course is designed for young men from the farms of Oklahoma who have not the time nor the inclination to take a

regular course in the high schools of the State, to be followed by a four-year collegiate course in agriculture, or even the Secondary Vocational Agriculture course, yet who desire a training in the practical application of the science of agriculture to the business of farming. It provides a course of study that will give the student a maximum of the actual studies relating to farm and livestock work, and in addition gives as much of the general studies as may be most useful in training young men to become leaders in their chosen calling on the farms of the State, or as teachers of agricultural subjects in the rural schools of the State, if the essential preparatory studies have been taken before entering the course.

The course of study includes work in agricultural chemistry, agricultural economics, agricultural engineering, field crops, soils, animal husbandry, including stock-judging, and a study of the feeding and care of animals, dairying, horticulture, farm management, poultry husbandry, animal diseases and entomology.

The outline of studies is such as will impart the greatest amount of directly useful knowledge that can be acquired in a brief length of time. The course of study includes three terms work for two years, beginning this year December 1, 1919, and closing February 21, 1920.

For further details and illustrated circular describing this course, application should be made to the Dean of Agriculture, Stillwater, Oklahoma.

Farmers Course in Agriculture

The Farmers Course in Agriculture is designed to meet the growing demand on the part of the busy farmer who is actually engaged in the work on his farm and who cannot avail himself of a college course, yet desires the latest information on the various phases of work on his farm. The course will consist of addresses, demonstrations and exercises covering a period of one week, designed to give busy farmers the most useful instruction and practice in the various phases of field crop culture, stock-feeding and management, horticulture, dairying and kindred subjects in the shortest possible time and at a season when they can be away from home for a brief period.

The course will be held in August, 1919, and is given under direction of the Extension Division, assisted by the teaching

Faculty and Experiment Station staff of the A. and M. College, and by other speakers and specialists. Programs may be had upon application to the Director of Extension, A. and M. College, Stillwater, Oklahoma.

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SIX WEEKS' REGULAR DAIRY COURSE

November 10 to December 20, 1919

The six weeks' regular dairy course is designed for young men who wish to enter the field of commercial dairying and become buttermakers, ice cream-makers and market milk dealers, as well as for experienced buttermakers, ice cream makers, and milkmen who desire a thorough practical knowledge of dairy manufacturing. Practical instruction will be given in modern methods of buttermaking and ice cream making, as well as some instruction in the manufacture of different kinds of cheese. The course will also include special lectures and demonstrations in the handling and pasteurization of market milk. Students will be given an opportunity to secure practice in the grading and sampling of cream and testing of cream for butterfat, testing acidity of cream, pasteurization of cream, ripening of cream with pure culture starter, churning, working and printing butter, and making moisture and salt tests of butter. In the course for ice cream makers, students will have facilities of modern freezers to obtain instruction in standardizing mixtures and freezing and hardening of ice cream. Opportunity will also be given in testing ice cream for butterfat, as well as detailed instruction in practice and principles employed in modern ice cream factories. The creamery and ice cream division at the A. and M. College is equipped with the most modern machinery and sanitary appliances to manufacture and handle dairy products in the most up-to-date manner. The course will include special lectures and laboratory, and daily practice in the manufacture of dairy products.

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ONE WEEK'S SPECIAL DAIRY COURSE

December 29, 1919, to January 3, 1920

This special one week's course in dairying is to provide an opportunity for buttermakers, ice cream makers and market milkmen, as well as cream station operators, to study modern methods of handling dairy products, and to become familiar with some of

the technical principles and facts regarding the manufacture of butter, ice cream, and the handling of cream and market milk. More investigations are carried on in the manufacture of dairy products than in perhaps any other line of agricultural activity. The successful manufacturer of dairy products must always keep pace with new, modern ideas, and must be continually studying new methods in order to keep abreast of these ideas. The entire equipment of the Dairy Depatrment of the A. and M. College will be at the disposal of students in this special dairy course.

Cream station operators are required to grade cream and to buy cream on the quality basis. Instruction and practice in cream grading will be offered as well as instruction in the proper use of the Babcock test.

An examination for cream-testing licenses can be arranged for at the completion of the course.

For further information, write to the Dean of Agriculture, Oklahoma A. and M. College, Stillwater, Oklahoma.

TERMS OF ADMISSION

Four-Year Courses in Agriculture

The requirements for admission to these courses are stated in terms of units in common with all other regular courses in the College. The term "unit" means the equivalent of five recitations a week for one year in one branch of study in the Secondary School. Fifteen units are required for admission, an allowance of 1 credit being made, however, where an applicant has completed 14 units of work in an accredited high school. The 15th unit may be made up from the Secondary School studies offered in the College.

Applicants will be required to present 3 units in English; 1 in social science, including history; 1 in physics; 2 in mathematics, which shall be made up of 1 unit in algebra and 1 in plane geomery; 3 academic units, including foreign language, and 5 additional units shall be elective from vocational, science, or other subjects.

Secondary Vocational Agriculture

Completion of the eighth grades of common schools are required for admission to the courses in Secondary Vocational Ag-

riculture, with the exception that students who have not completed the common school work, who show ability to handle the work, and who are at least sixteen years of age, may be granted special permits to pursue this course. Students who are entered as regular students, upon completion of the course, as outlined, may have the credits applied (above 8 units) toward entrance to the A. and M. College.

Short Course in Practical Agriculture, and Six Weeks' Course in Dairying

Students to be admitted to these courses must be at least sixteen years of age, and have a good, common school education. No entrance examinations are required.

Farmers Course in Agriculture

Any one interested in farming, or better agriculture, is invited to attend this course. There are no examinations or entrance requirements.

One Week's Special Dairy Course

This course is designed especially for those who are already in the dairy business who wish an opportunity to take a short, intensive course. There are no entrance requirements. Examinations may be arranged for cream-testing licenses at the completion of the course.

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GENERAL COURSE IN AGRICULTURE

The following outline of study represents the required and elective work in the School of Agriculture. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject and the even numbers, as 102, the second semester's work. Subjects of the Sophomore, Junior and Senior years are numbered accordingly, two hundred for Sophomore, three hundred for Junior, and four hundred for Senior work. One hour of laboratory period is equivalent to one-third of a classroom period in estimating the number of hours per week to be taken.

The total requirements for graduation are 128 credits, exclusive of any credits in military science and physical education.

Before graduation, every student in agriculture must have had at least six months of actual farm experience satisfactory to the dean of the school.

In the outline below, figures without parenthesis indicate hours of classwork, in parenthesis hours of laboratory work.

General Course

FRESHMAN YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 101, College	3		3
Chem. 101, Inorganic	3	(4)	4⅓
Agron. 101, Field Crops	2	(4)	3⅓
A. H. 101, Market Types	1	(4)	2⅓
Pub. Spk. 101, Essentials	2		2
Farm Mech. 101, Farm Mechanics	1	(3)	2
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Eng. 102, College	3		3
Chem. 102, Inorganic	2	(4)	3⅓
Hort. 104, Vegetable Gardening	2	(2)	2⅔
Bot. [redacted]. 106, General	2	(4)	3⅓
Dairy 102, Elements of Dairying	2	(4)	3⅓
Shop 108, Farm Carpentry		(3)	1
Physical Education		(3)	
Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Chem. 207, Qualitative Analysis	1	(3)	2
Chem. 205, Organic	2	(3)	3
Hort. 201, Fruit Growing	2	(4)	3⅓
Zool. 207, General	2	(4)	3⅓
Bot. 101, General	2	(4)	3⅓
Shop 205, Agricultural Forging		(3)	1
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Chem. 206, Quantitative Agricultural Chemistry	2	(6)	4
A. H. 202, Breeds of Livestock	2	(3)	3
Ento. 202, General	3	(2)	3⅔
Bact. 310, General	2	(4)	3⅓
Agron. 204, Soils	2	(3)	3
Military Science		(3)	

Agronomy Course

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Agron. 303, Forage Crops	2	(4)	3⅓
Bot. 303, Genetics	3		3
Farm Mech. 303, Farm Motors	2	(4)	3⅓
P. H. 305, Farm Poultry	2	(4)	3⅓
Electives			3

SECOND SEMESTER	Hours		Cr.
Agron. 302, Soil Fertility	3	(6)	5
Hort. 304, Plant Breeding	3		3
Agron. 304, Farm Accounts,	1	(2)	1⅔
A. H. 306, Animal Nutrition	3		3
Electives			3⅓

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Agron. 401, Farm Management	2	(4)	3⅓
Agron. 409, Advanced Crops or Agron. 405, Advanced Soils	2	(4)	3⅓
Agron. 407, Seminar	1		1
Electives			8⅓

SECOND SEMESTER	Hours		Cr.
Agron. 404, Crop Improvement or Agron. 424, Advanced Farm Management	1	(4)	2⅓
Agri. 402, College and Station Work	1		1
Econ. 406, Contracts	2		2
Agron. 408, Seminar	1		1
Electives			8⅔

Animal Husbandry Course

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
A. H. 301, Livestock Record Work	1	(2)	1⅔
Vet. Sci. 309, Anatomy	2	(2)	2⅔
Bot. 303, Genetics	3		3
P. H. 305, Farm Poultry	2	(4)	3⅓
Vet. 309, Physiology	2	(2)	2⅔
Agron. 303, Forage Crops	2	(4)	3⅓
Electives			2⅔

SECOND SEMESTER	Hours		Cr.
A. H. 302, Livestock Judging	1	(4)	2⅓
A. H. 306, Animal Nutrition	3		3
Vet. Med. 310, Animal Diseases	2	(2)	2⅔
Agron. 302, Soil Fertility	3	(6)	5
Electives			3

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
A. H. 401, Livestock Selection	1	(6)	3
A. H. 409, Animal Breeding	3		3
Agron. 401, Farm Management	2	(4)	3⅓
A. H. 411, Seminar	1		1
Electives			5⅔

SECOND SEMESTER	Hours		Cr.
A. H. 404, Animal Production	5		5
Agri. 402, College and Station Work	1		1
A. H. 412, Seminar	1		1
A. H. 406, Practicum		(4)	1⅓
Elective			7⅔

Dairying Course

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Dairy 303, Testing Milk and Its Products	1	(6)	3
Farm Mech. 303, Farm Motors	2	(4)	3⅓
Econ. 201, Elements of Economics	3		3
Agron. 303, Forage Crops	2	(4)	3⅓
P. H. 305, Farm Poultry	2	(4)	3⅓

SECOND SEMESTER	Hours		Cr.
Dairy 304, Factory Operation	2	(8)	4⅔
A. H. 306, Animal Nutrition	3		3
Electives			8⅓

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Dairy 405, Cheesemaking	1	(6)	3
Dairy 407, Milk Production,	3		3
A. H. 409, Animal Breeding	3		3
Bact. 311, Dairy Bacteriology	2	(4)	3⅓
Dairy 411, Seminar	1		1
Electives			2⅔

SECOND SEMESTER	Hours		Cr.
Dairy 404, Market Milk and Dairy Inspection	2	(3)	3
Dairy 412, Dairy Seminar	1		1
Agri. 402, College and Station Work	1		1
Econ. 406, Elements	2		2
Electives			8⅓

Horticulture Course

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Hort. 301, Systematic Pomology	2	(4)	3⅓
Hort. 305, Canning and Handling By-Products	1	(2)	1⅔
Bot. 303, Genetics	3		3
P. H. 305, Farm Poultry	2	(4)	3⅓
Electives			4⅔

SECOND SEMESTER	Hours		Cr.
Hort. 304, Plant Breeding	3		3
Bot. 304, Plant Physiology	2	(2)	2⅔
Agron. 302, Soil Fertility	3	(6)	5
Electives			5⅓

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Hort. 401, Commercial Pomology	2	(2)	2⅔
Hort. 405, Forestry	2		2
Bot. 305, Pathology	2	(4)	3⅓
Econ. 201, Principles of Economics	3		3
Hort. 409, Thesis		(3)	
Electives			4

SECOND SEMESTER	Hours		Cr.
Hort. 402, Landscape Gardening	2	(2)	2⅔
Hort. 404, History and Literature of Horticulture or			
Hort. 406, Forestry	3	(2)	3⅓
Agri. 402, College and Station Work	1		1
Edu. 102, Principles	2		2
Hort. 410, Thesis		(3)	
Electives			5⅓

Poultry Course

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Agron. 303, Forage Crops	2	(4)	3⅓
Bot. 303, Genetics	3		3
P. H. 305, Farm Poultry	2	(4)	3⅓
Electives			6⅓

SECOND SEMESTER	Hours		Cr.
A. H. 306, Animal Nutrition	3		3
Agron. 302, Soil Fertility	3	(6)	5
P. H. 310, Judging		(2)	⅔
P. H. 308, Incubation—Brooding	1	(6)	3
Elective			4⅓

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Agron. 401, Farm Management	2	(4)	3⅓
Dairy 407, Milk Production	3		3
P. H. 401, Seminar	1		1
P. H. 403, Research	1	(4)	2⅓
Electives			6⅓

SECOND SEMESTER	Hours		Cr.
Agri. 402, College and Station Work	1		1
P. H. 408, Extension Work	2		2
P. H. 402, Seminar	1		1
P. H. 406, Management	2		2
Electives			10

*Course in General Agriculture for Teachers

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Agron. 303, Forage Crops	2	(4)	3⅓
Vet. 309, Anatomy	2	(2)	2⅔
P. H. 305, Farm Poultry	2	(4)	3⅓
Bot. 303, Genetics	3		3
Edu. 101, Psychology	2		2
Electives			1⅔

SECOND SEMESTER	Hours		Cr.
A. H. 302, Livestock Judging	1	(4)	2⅓
A. H. 306, Animal Nutrition	3		3
Vet. 310, Animal Diseases	2	(2)	2⅔
Agron. 302, Soil Fertility	3	(6)	5
Edu. 102, Principles of Education	2		2

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Agron. 401, Farm Management	2	(4)	3⅓
Bot. 305, Plant Pathology	2	(4)	3⅓
Agri. Edu. 403	3		3
Agri. Edu. 421, Practice Teaching		(4)	1⅓
Elective			5

SECOND SEMESTER	Hours		Cr.
Teaching		(4)	1⅓
Econ. 414, Rural Economics	2		2
Soc. Sci. 405, Rural Sociology	2		2
A. H. 406, Practicum		(4)	1⅓
Edu. 302, Applied Psychology	3		3
Agri. Edu. 422, Practice Teaching		(4)	1⅓
Elective			6⅓

*Students completing this course are qualified to teach in the high schools of the State receiving Smith-Hughes support.

DEPARTMENT OF AGRONOMY

M. A. BEESON, *Professor*
ADRIAN DAANE, *Assistant Professor*
D. R. JOHNSON, *Assistant Professor*
H. H. FINNELL, *Station Farm Foreman*
HENRY E. DUNLAVY, *Student Assistant*
JOHN BAKER, *Student Assistant*
CLYDE HASTON, *Student Assistant*

The course in agronomy has been designed to familiarize the student with the princ ıples underlying productive soils, plant growth and farm management. It offers practical training in these modern fields of science, preparing young men to successfully solve the problems of farm life and fitting them for educational and research work.

The subject matter of these courses comprises the most recent information and experimental data. While the conditions in different sections of Oklahoma are given special consideration, yet the instruction is not intended to be limited geographically.

The courses of instruction in this department are coordinated with the courses in animal husbandry, dairy husbandry, agricultural engineering, poultry husbandry, horticulture and entomology. By this arrangement, and the electives allowed, the student will be able to get a comprehensive knowledge of the three large branches of agricultural science—the soil, the plant and the animal. And, too the student has an opportunity to get either a general education to fit him more particularly for general farming and extension work, or he may specialize in any particular division of the Agronomy Department, as soils, crops and farm management.

The work in the department is two-fold: First, to fit young men to successfully solve problems of soils, crops and farm management, which are an integral part of every farmer's experience; second, to fit students to creditably fill positions in agricultural colleges and experiment stations, as investigators in governmental and state experimental work, high schools, farm managers, and extension workers for colleges and railroads.

There is a constantly increasing demand for men trained in soils, crops and principles of farm management, and every year the department is asked to recommend men for such desirable positions in colleges and experiment stations; instructors of agriculture in high schools; investigators in governmental and state experimental work, farm managers and extension workers.

The Station farm used by the Department of Agronomy consists of 160 acres of medium rolling land, well situated for experimental and demonstration work. It is well equipped with all kinds of farm machinery necessary in crop production.

The general field and experimental plats of the Experiment Station used for breeding and testing farm crops and for conducting experiments in methods of soil management, afford the student excellent opportunities for study and investigation.

The large, well equipped laboratory for soil physics and soil fertility work is maintained for the regular use of students.

A research laboratory is well supplied with necessary apparatus for the use of the instructors and advanced students in doing research work.

The crops laboratory is well equipped with material and speci-

mens for a detailed study of the different cereal, forage and fiber crops.

The courses in farm management have been designed to correlate the information obtained in other courses so that the student may understand the principles involved in organizing and conducting a farm as a profitable business. Records of 1,000 Oklahoma farms are available for use in the farm management course.

The following is a detailed description of the courses offered in lecture rooms and laboratories:

SUBJECTS

101 Field Crops. Class 2 hours, laboratory 4 hours. Credit 3⅓.

A study of the characteristics, adaptation, preparation of the seedbed, culture and uses of the various cereal crops and varieties of cotton adapted to Oklahoma conditions. The laboratory work is devoted largely to grain-judging and a study of the various cereal grains.
Text: "Field Crops for the Cotton Belt", Morgan.
Required: All agricultural students.

204 Soils. Class 2 hours, laboratory 3 hours. Credit 3.

A general introductory course dealing with the origin, formation, classification and physical properties of soils. Particular emphasis is placed upon the effect of soil management on moisture, drainage, aeration, heat, erosion and alkali.
Text: "Soils", Lyon, Fippin and Buckman.
Prerequisite: Elementary Physics.
Required of all agricultural students.

302 Soil Fertility. Class 3 hours, laboratory 6 hours. Credit 5.

The relation of the plant to the soil. Influence of the plant on the natural fertility of the soil. Profitable methods of conserving fertility. Effect of different systems of farming upon the fertility and productiveness of soils. Relation of micro-organisms to fertility. Special emphasis given to fertilizer requirements of Oklahoma soils.
Text: "Soil Fertility and Permanent Agriculture", Hopkins.
Prerequisite: Chem. 206; Agron. 204.
Required of all agricultural students.

303 Forage Crops. Class 2 hours, laboratory 4 hours. Credit 3⅓.

A study of the history, development, growth, distribution, culture and uses of the forage and fiber crops. Annual and perennial grasses and forage crops, including legumes, cereals and sorghums, are studied with special reference to their cutlure, adaptation, production and uses. In the laboratory a study is made of the plant and the varieties of different seeds with special reference to their identification, quality and purity.
Text: "Forage Crops", Piper.
Prerequisite: Agron. 101.
Required of all agricultural students.

304 Farm Accounts. Class 1 hour, laboratory 2 hours. Credit 1⅔.

Farm inventories, stock and crop accounts; complete farm accounts. Special emphasis is given to the interpretation of the accounts and their application to the organization and management of the farm.

Required of all agronomy students.

Elective for all students.

305 Cotton Production, Grading and Classing. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Varieties, methods of selection, planting, culture, harvesting and marketing of the cotton crop and cottonseed products will be considered in detail. The laboratory work consists of testing fibers and grading and classing, together with field work.

401 Farm Management. Class 2 hours, laboratory 4 hours. Credit 3⅓.

The purpose of this course is to assemble and correlate the principles involved in the successful management of a farm. Study is made of points to be considered in the selection of the farm, types of farming, planning and arrangement of the farmstead, the fields and crop rotations; of the cost of producing farm products. The relation of the size of the farm to profits; the relation of livestock to crop production and maintenance of permanent agriculture receives consideration.

Text: "Farm Management", Warren.

Prerequisite: Agron. 101, 204, 302.

Required of all agricultural students.

404 Crop Improvement. Class 1 hour, laboratory 4 hours. Credit 2⅓.

This is an advanced course in cereal and forage crops dealing with factors affecting management, improvement and breeding. The laboratory is partly devoted to the collection, reading and classification of material concerning cereal and forage crop improvement. When conditions permit, the laboratory work consists chiefly of actual field work on the principal crops that are being improved on the Station farm.

Prerequisite: Agron. 101, 302, 303.

Required: Either Agron. 404 or Agron. 424 of agronomy students.

405 Advanced Soils. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Physical or chemical study of special soils in which the student is especially interested. Centrifugal analysis, time and depth of cultivation, moisture and temperature, surface washing and prevention, determination of limiting elements of plant food on the home farm, effect of various fertilizers, as determined by pot and field experiments. Study of fertility experiments at other Stations.

Prerequisite: Agron. 304-302, or Agron. 409-405.

407 Seminar. Class 1 hour. Credit 1.

Reports, discussions and papers will be called for on literature and scientific research along agronomic lines.

Prerequisite: Agron. 101, 202, 302.

Required of all agronomy students.

408 Seminar. Class 1 hour. Credit 1.
Continuation of Agron. 407.
Prerequisite: Agron. 101, 202, 302.
Required of all agronomy students.

409 Advanced Crops. Class 2 hours, laboratory 4 hours. Credit 3⅓.
This course takes up more advanced work in the production of the important crops throughout the United States. Emphasis will also be placed on more detailed study of the various plants that go to make up the cereal and forage crops of the United States.
Prerequisite: Agron. 101, 302, 303.
Required: Either Agron. 409 or Agron. 405 of agronomy students.

423 Commercial Grades and Distribution of Farm Crops. Class 1 hour, laboratory 4 hours. Credit 2⅓.
Study is made of the methods of inspecting, grading, storing and distributing grain. In the laboratory a study is made of the commercial grades of corn, wheat, oats and hay.
Prerequisite: Agron. 101.
Elective for agricultural and commerce and marketing students.

424 Advanced Farm Management. Class 1 hour, laboratory 4 hours. Credit 2⅓.
Further study of organization and field management, and a study of the actual farms over the State, noting the arrangement of fields, and obtaining data on the farm, including labor, income and cost of production.
Prerequisite: Agron. 401.
Required: Either Agron. 424 or Agron. 404, of agronomy students.

DEPARTMENT OF ANIMAL HUSBANDRY

———————, *Professor*
W. L. BLIZZARD, *Assistant Professor*
S. F. RUSSELL, *Assistant Professor*
CARL P. THOMPSON, *Assistant Professor*
FRED BAYLISS, *Herdsman*
E. R. JONES, *Herdsman*
V. C. MOREY, *Herdsman*
D. CARPENTER, *Herdsman*
H. WILLIAMS, *Herdsman*
CLYDE HAMLIN, *Farm Foreman*

The Department of Animal Husbandry gives instruction in all lines of practical and theoretical work which deal with judging, selecting, breeding, feeding, development, care and management of the various market and breed types of farm animals. The livestock industry in Oklahoma is the most important industry in the State, and for this reason the department is attempting to supply adequate instruction to meet the demands for work of this character.

Equipment

The equipment in the form of flocks and herds, barns and outbuildings, judging pavilion, land and lots is rather complete. These make up the laboratories for this department. That the herds and flocks contain animals of unusual merit is shown by recent winnings at the best livestock shows in the country. A steady improvement in the livestock is being sought.

The books in the libraries of the College, Experiment Station and department assist the students greatly in securing authentic information about livestock affairs. The department receives regularly copies of all the prominent livestock papers and periodicals. Special effort has been made to secure a complete list of herdbooks and animal husbandry reference literature. The material at hand enables students to become specialists in many lines of the animal industry.

Courses

Judging and selection is one of the main factors of the livestock work. The instruction is given with the idea that a great deal of good practice makes a proficient judge. Much time is given to work with the animals at the barns and in the judging pavilion. The score card method is used at first. In this way every point that affects the value of the animal is discussed in detail. Different breeds and types have different score cards, and by the use of all these cards students become skillful in judging the various breeds and types. Comparative judging is introduced as soon as the student has become proficient in the use of the score card. The comparative system consists in placing a class of animals in order of merit. Three or four or more animals are used as a class. Fifty percent is given to perfect placing and 50% for correct reasons for placing. The Senior and postgraduate students are trained in judging so that they may, upon completing the course, assist in judging at the various county and state fairs.

Breeding, feeding and management are important courses of the instruction. Several breeding experiments are in progress at the Experiment Station. Students work out the details of the experiments and thereby become acquainted with the fundamental principles governing this science. Senior students are required to spend four hours each week throughout the year in feeding the

hundreds of head of livestock at the College. The feeding work is carefully supervised by the best trained instructors and herdsmen.

Livestock management is one of the principal courses on the schedule. Students are taught that good management is more necessary than theories and fancies.

The main aim of the work given the student is to train him to fill some of the fields in which there is a great demand. A combination of college training and practical experience works well in making the best men. Colleges and experiment stations, Government agencies, farmers, merchants and all commercial agencies that buy and sell the farmer's produce, need men trained as this College is doing.

Beef Cattle

The beef cattle section of the Animal Husbandry Department is represented by three breeds, the Hereford, Shorthorn and Angus. Good representatives of each breed are maintained, and the course of study is so arranged as to give the student practical instruction in selection, feeding, breeding, marketing, care and management. In addition to the breeding herd, the College maintains a steer herd. It is maintained because it is much easier to keep steers in high condition throughout the year, as there is a tendency to make non-breeders of breeding cattle by keeping them in the high condition required for the best instruction work. The recent winnings of the cattle show that the present equipment is exceedingly good.

Dairy Cattle

The livestock equipment in the dairy section consists of registered Jerseys and Holstein-Friesians of high quality. Some of them produced as much milk and butterfat as any in the State. Daily records of about forty pounds of milk and two pounds of butterfat for about six months are common among the ainmals of the Rose Fern Lad Jersey family. Yearly records are kept in every case. It is planned to have one other breed well represented in the College herd before another year has passd. There has been a larger increase in value per head of dairy cattle in Oklahoma during the past year than any other class of livestock. More attention will be given to selecting and producing dairy cat-

tle. Numerous lots and pasture land of several hundred acres is used in the outdoor management of the herd.

Horses

The horse section of the Animal Husbandry Department is represented by two breeds. Among these are good representatives of the Percheron and Standardbred. In the collection of Percheron mares some excellent specimens are found. The Standardbreds are also represented by good indivaduals. This collection of horses was established some time ago, and with the individuals that have been added to it gives the student an excellent opportunity to receive some real practical work with horses.

Sheep

The equipment for sheep consists of a barn and two silos, valued at $2,500.00, besides several moderate sized pasture fields. The breeding flocks total about one hundred select individuals. All sheep are owned by the Experiment Station and are used in the cross-breeding experiment that was started in 1909. Pure-bred flocks of Shropshires, Dorsets, American Merinos and Rambouillets are maintained and afford excellent material for instruction in the types and breeds of sheep in connection with the work in practical sheep-judging. Thorough courses are offered in the study of market types and breed types of sheep, together with special sheep selection, production and management.

Swine

The collection of swine outnumbers that of any other section of the Animal Husbandry Department. Several breeds are represented. There are more Duroc Jerseys than any other breed. A number of Poland Chinas, Berkshires and Hampshires are kept. About fifty grade hogs are used, mainly for experimental purposes. In all, the number of swine on hand ranges from 175 to 200.

SUBJECTS

101 Market Types of Livestock. Class 1 hour, practice in judging 4 hours. Credit 2⅓.

This course consists of a study of the market types, classes and grades of horses, cattle, sheep and swine.

Text: "Types and Market Classes of Livestock", Vaughn.

202 Breeds of Livestock. Class 2 hours, practice 3 hours. Credit 3.

Characteristics of each breed of horses, cattle, sheep, swine and jacks are considered at length. Each breed is discussed with reference to its origin, history, development and adaptation to American conditions. Much emphasis is put on the practical work in judging representatives of the various breeds according to the standards set by the show ring.

Text: "Types and Breeds of Farm Animals", Plumb.

301 Livestock Record Work. Class 1 hour, laboratory 2 hours. Credit 1⅔.

A study of the systems of livestock registration, the use of herd books, the tracing of pedigrees, and the leading blood lines of horses, cattle, sheep and swine.

Prerequisite: A. H. 101, 202.

Text: Herd Record Books.

302 Livestock Judging. Class 1 hour, practice in judging 4 hours. Credit 2⅔.

A practical course aimed to train the student to become proficient in livestock judging. The first part of the work consists of the use of the score card as applied to the different types and breeds. The major portion of the work is done by the method of comparative judging, using rings of from three to five animals.

Prerequisite: A. H. 101, 202.

Text: "Judging Farm Animals", Plumb.

306 Animal Nutrition. Class 3 hours. Credit 3.

Principles of animal nutrition; compositions and digestibility of various feeds; balanced rations; economical feeding of animals for various purposes.

Text: "Feeds and Feeding", Henry and Morrison.

401 Livestock Selection. Class 1 hour, practice in judging 6 hours. Credit 3.

This course deals with the judging of market classes as well as the different breeds of purebred stock. During the work of the term occasional trips are made to the best livestock farms of the State where the students have an opportunity to judge and to observe the management of herds and flocks. Students are urged to attend county and state fairs to observe the judging of livestock.

Prerequisite: A. H. 101, 202, 302.

Required of students who are candidates for judging teams.

Text: Assigned references.

404 Animal Production. Class 5 hours. Credit 5.

Studies of the most practical and scientific methods of producting, feeding and marketing livestock.

Prerequisite: A. H. 101, 202, 306.

Text: "Productive Horse Husbandry", Gay; "Productive Swine Husbandry", Day; "Sheep Farming", Craig.

406 Practicums—Practice in Feeding and Handling Livestock. Laboratory 4 hours. Credit 1⅓.

Prerequisite: A. H. 301, 306.

Practical feeding and management of horses, beef cattle, dairy cattle, sheep and swine is given in the barns, and each student is required to do the schedule amount of this kind of work. Drill is given

in grooming, feeding, care, management, fitting and training for show and exhibition purposes. The aim of the course is to aid the student to become a thoroughly practical and expert stockman.

409 Animal Breeding. Class 3 hours. Credit 3.

Prerequisite: Bot. 303; A. H. 101, 301.

Required of Seniors in animal husbandry and dairying.

A study of the principles of animal breeding and their practical application. Special emphasis is laid upon the study of heredity and its control with reference to livestock improvement.

Text: Principles of Breeding, Davenport.

411 Seminar. Class 1 hour. Credit 1.

Discussion on scientific research along Animal Husbandry lines. Reports and papers will be called for from Animal Husbandry literature.

Prerequisite: A. H. 102, 202, 302, 306.

Required of all Animal Husbandry students.

412 Seminar. Class 1 hour. Credit 1.

Prerequisite: A. H. 102, 202, 302, 306.

Continuation of Animal Husbandry 411.

DEPARTMENT OF DAIRYING

A. C. BAER, *Professor*
C. A. BURNS, *Assistant Professor*
C. P. UNWIN, *Foreman of Factory*
L. F. FRAZIER, *Assistant in Cow Testing*

The dairy industry is making steady progress in Oklahoma. The number of dairy cows in the State was materially increased during the past year. High prices for dairy products and an abundance of feed helped to stimulate dairying.

Many local creameries are being reorganized and a number of new factories are being built. The ice cream and market milk industry have continued rapid progress and improvement.

The opportunity for students and graduates to enter commercial plants as well as dairy farming are better than ever before. Many more applications for trained and responsible men are received every year than are possible to fill.

The courses offered in this department give students a thorough knowledge of general dairying as well as specialized technical training and experience in buttermaking, cheesemaking, ice cream making and the handling of market milk, and in practical milk production and dairy management.

The facilities for instruction include a modern, sanitary commercial creamery, where butter, ice cream and cottage cheese are made daily. The farm dairy room is equipped with twelve mod-

ern cream separators and clarifiers, as well as buttermaking and cheesemaking equipment.

The market milk department is equipped with modern bottle-washing apparatus, bottle sterilizing oven, bottle-filling and capping machine, and an "In Bottle" pasturizer equipped with an automatic recording thermometer.

The market milk activities include the retail delivery of milk, cream and other dairy products in the City of Stillwater.

The activities of the department include the teaching of students in regular and short courses, the commercial operation of the creamery and market milk departments for experimental and research studies, which are carried on throughout the year by the departmental staff.

The department has charge of official advanced registry and register of merit testing for purebred breeders of dairy cows of the State.

Students taking the dairy course have an opportunity to secure experience and acquaintance with all the activities of the department.

SUBJECTS

102 Elements of Dairying. Class 2 hours, laboratory 4 hours. Credit 3⅓.

(One hour lecture and one hour recitation.)

A general survey of the field of dairying, including a study of the secretion of milk, the Babcock test, farm buttermaking, farm separators, production of sanitary milk, cow test associations, and advanced registry testing.

Text: "Milk and Its Products", Wing.

303 Testing Milk and Its Products. Class 1 hour, laboratory 6 hours. Credit 3.

A thorough study in the use of the Babcock test. Includes testing of milk and cream for butterfat, calibrating of glassware and testing skimmilk, buttermilk, cheese, condensed milk and ice cream for butterfat. The lactometer and its application to the detection of adulteration, different methods of testing for acidity, fermentation tests, detection of oleomargarine, renovated butter. Tests for preservatives in different dairy products are also included.

Text: "Testing Milk and Its Products", Farrington and Woll.

304 Factory Operation. Class 2 hours, laboratory 8 hours. Credit 4⅔.

A study of modern methods of buttermaking, ice cream making, cottage cheese, including pasteurization, ripening, starters, churning and moisture control; creamery and factory organization and management; construction and accounting.

Text: The Book of Butter, Guthrie.

404 Market Milk and Dairy Inspection. Class 2 hours, laboratory 3 hours. Credit 3.

A study of market milk and its control. Pasteurization and commercial handling of milk. Laboratory and field inspection of milk. Milk ordinances and board of health milk regulations.

Text: "The Milk Question", Roseneau; "Laboratory Guide for Market Milk", Ross.

405 Cheesemaking. Class 1 hour, laboratory 6 hours. Credit 3.

Modern methods of factory cheesemaking, including practical instruction in the manufacture of various kinds of cheese; construction and management of cheese factories.

Text: "Science and Practice of Cheesemaking", Van Slyke and Publow.

407 Milk Production. Class 3 hours. Credit 3.

A study of factors governing the choice of a dairy breed, best methods of handling dairy cattle, improved standards of production, sanitary and certified milk production, planning and equipping dairy barns and milk houses, equipping the dairy farm, and marketing dairy products.

Text: "Dairy Cattle and Milk Production", Eckles.

409 Domestic Dairying. Class 1 hour, laboratory 3 hours. Credit 2.

Elective for Junior and Senior girls. The care of milk and cream in the home; sanitary milk production; milk dietetics and hygiene; the use of dairy products as food; farm buttermaking, and ice cream and ices.

411 Dairy Seminar. Class 1 hour. Credit 1.

Each student will prepare a thesis on a dairy subject, arranged in outline form at the beginning of the semester, after consulting with the instructor. Students will be given the privilege of writing and reporting on dairy subjects of special interest to them.

Summary of certain bulletins will be required.

412 Dairy Seminar. Class 1 hour. Credit 1.

Continuation of 403 second semester.

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DEPARTMENT OF ENTOMOLOGY

C. E. SANBORN, *Professor*
OTIS WADE, *Assistant Professor*
LOTTIE ALTIZER STILES, *Student Assistant*

The courses of instruction given by the Department of Entomology are arranged to meet—

1. The requirements of agricultural students who desire to have practical information relative to the control of injurious insects of the farm, orchard and garden.

2. Requirements of students who desire to obtain a broader scope of entomology than above mentioned, for the purpose of demonstration work.

3. Requirements of students who are preparing to teach entomology in public schools.

4. Requirements of those who desire to specialize in entomology for the purpose of preparing themselves as nursery and orchard inspectors or for positions in other colleges and universities.

Work can be taken in this department leading to a master's degree.

The Experiment Station side of entomology is a closely allied division, and much of the practical side of the work taken by students can be gained through frequent assistance in the Experiment Station work of the department.

In addition to the regular well equipped class laboratory, there is a Station laboratory located in the Apiary Building to which students have frequent access for the purpose of becoming familiar in the most practical way with all lines of work in entomology.

SUBJECTS

202 General Entomology. Class 3 hours, fiield and laboratory 2 hours. Credit 3⅓.

A systematic study of insects and a study of their distribution, habits and methods of development with a view of ascertaining methods of control.

Text: Sanderson.

204 Sanitary Entomology. Class 2 hours, field and laboratory 3 hours. Credit 3.

A brief, systematic study of insects and a study of their life history, and the habits of forms which disseminate disease and infect the household.

Text: Herrick.

303 Horticultural Entomology. Class 2 hours, field and laboratory 4 hours. Credit 3⅓.

Habits and distribution of orchard and garden insects, studied in such a way as to portray the most practical methods of controlling them.

Text: By assignment.

306 Apiculture. Class 3 hours, field and laboratory 2 hours. Credit 3⅓.

A general course in beekeeping.

Text: Root.

403 Advanced Entomology. Class, field and laboratory work by assignment.

Subjects given by assignment. (Practically all courses in advanced entomology will be given by assignment. This refers particularly to graduate students.)

DEPARTMENT OF HORTICULTURE

F. M. ROLFS, *Professor*
FRANK B. CROSS, *Assistant Professor*
W. E. WHITE, *Instructor*
R. PERRY ROBERTS, *Gardener*

The courses offered in this department are designed to give the student a thorough knowledge of the most important lines of horticultural work. Instruction consists of lectures, recitations and practical exercises in the laboratory and field.

The facilities for instruction include lecture rooms, reading room, laboratory, implement house, and a practical work room; orchards of a number of the leading varieties of fruits, plantings of vegetables, a small nursery, a cellar, greenhouse, hotbeds, and cold frames. The department is also well equipped with tools, implements and apparatus for giving practical work.

The office, laboratory and classroom are located on the third floor of Morrill Hall. The office and horticultural reading room are combined. The room contains a number of the leading magazines, journals and reference works pertaining to horticulture, as well as a set of Station and United States Government publications. It is intended for the use of students specializing in horticulture, to give them a broader view of the subject and to keep them in touch with current horticultural information. The laboratory is well equipped with modern apparatus for horticulture research work.

The implement shed, work room, cellar, cold frames and propagating beds are located on the horticultural grounds. The work room is supplied with packing tables, workbenches, and other equipment for instructional work. The department is well equipped for giving practical instruction in the various methods of plant propagation; the study of buds and twigs of fruits and ornamental plants; a study of vegetables, fruits, nuts; the design of greenhouse structures and landscape plans; seed testing, and the storing, grading and packing of horticultural products. The cold frames and hotbeds are of various types for home use and commercial purposes, and are used in the vegetable forcing work.

The orchard, vineyard and garden of the Experiment Station offer practice in the pruning and training of various fruits, and also give an opportunity for comparison of the various cultural methods. The grounds, cellar and greenhouse afford ample material for laboratory and classroom work.

SUBJECTS

104 Vegetable Gardening. Class 2 hours, laboratory 2 hours. Credit 2⅔.

This course includes the general principles of vegetable culture, dealing principally with the study of the home and city garden. Some attention will also be given to vegetable forcing and market gardening. Garden soils and fertilizers as well as various cultural features will receive careful attention.

Text: Productive Vegetable-Growing, Lloyd.

Reference: "Vegetable Gardening", Watts.

201 Fruit Growing. Class 2 hours, laboratory 4 hours. Credit 3⅓.

A course designed to give the student a practical knowledge of fruit-growing and at the same time serve as a foundation work for the course in systematic pomology. It embraces a study of planting, pruning, spraying, cultivation, cover crops, frost prevention and fertilizers for orchards and small fruits. The practical work includes making of orchard plans, laying out the orchard, planting, pruning and spraying, and the identification and judging of fruits most commonly grown in Oklahoma.

Text: "Productive Orcharding", Sears.

Reference: "Fruit-Growing in Arid Regions", Paddock and Whipple.

203 Fruit-Growing. Class 2 hours, laboratory 2 hours. Credit 2⅔.

An elective offered principally for women. Fruit-growing as adapted to the school and home is especially studied. This course includes a study of the principles and practices of some of the most important lines of horticultural work. Attention is given to the different methods of propagation, planting, cultivating and harvesting of the different varieties of fruit most commonly grown in Oklahoma. The practice work includes the making of orchard plans, laying out the orchard, planting, pruning and spraying. The identification and judging of fruits will also receive attention.

Text: Productive Orcharding, Sears.

Reference: Fruit-Growing in Arid Regions, Paddock and Whipple.

301 Systematic Pomology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

A study of the origin and history of our cultivated fruits, and of the varieties best adapted to the home and commercial orchards. Trees representing the different species of our leading fruits are carefully observed, and also the influence of environment upon the behavior of the trees and on the development of their products. Practice is given in describing and identifying varieties of fruits and nuts, placing exhibits, and fruit-judging.

Prerequisite: Hort. 201.

Text: "Systematic Pomology", Waugh.

304 Plant Breeding. Class 3 hours. Credit 3.

A study of the application of principles in breeding to improve our fruits and vegetables; the selection and fixing of varieties; the improvement of plants by selection. Special attention is given to breeding for quality and disease resistance. Practical work is given in the orchard, garden annd greenhouse in cross-pollination, hybridization and selection.

Prerequisite: Bot. 303.

Text: "Plant Breeding", Bailey.

Reference: "Principles of Plant Breeding", Davenport.

305 Canning and Handling of By-Products. Class 1 hour, laboratory 2 hours. Credit 1⅔.

A general study of horticultural by-products and fruits and vegetables especially adapted for canning. The different methods of canning, evaporating, drying, and the manufacture of vinegar and fruit juices is studied. Buildings, machinery and apparatus necessary for successful work receive considerable attention. Practical work is given in all the fundamental principles connected with the operation of a cannery.

Theory work is given by lectures.

306 Nursery Practice. Class 2 hours, laboratory 2 hours. Credit 2⅔.

A study of methods by which plants are propagated by means of division, cuttings, layering, budding and grafting; production and care of seeds, seed-testing, bulb reproduction; exercises in the laboratory in propagating garden seeds, flowers, shrubs, forest and fruit trees; nursery practice.

Elective.

Text: "Plant Propagation", Kains.

Reference: "The Nursery Book", Bailey.

308 Floriculture. Class 2 hours, laboratory 2 hours. Credit 2⅔.

A course in the cultivation and care of greenhouse and home plants, as well as a study of the annuals and perennials adapted to Oklahoma. The proper soils, planting of seeds, transplanting, making of cuttings, principles of heating and ventilating, plant diseases and insect control will receive careful attention. Problems in grouping and arranging of flowers for color harmonies while growing, as well as pleasing effects for decorating purposes, are also included in the course.

Text: "Principles of Floriculture", White.

Reference: "Manual of Gardening", Bailey.

401 Commercial Pomology. Class 2 hours, laboratory 2 hours. Credit 2⅔.

A course treating of the care of fruit trees, the management of orchards and the handling of fruit. Problems of pruning, spraying, cultivating and frost prevention are studied; also the most approved methods of harvesting, grading, packing, transportation, marketing, storing, and construction of cold storage plants. A careful study of the control measures for insect pests and fungus and bacterial diseases are also given considerable attention.

Text: "Fruit Harvesting, Marketing and Storing", Waugh; "American Fruit Culturist", Fuller.

402 Landscape Gardening. Class 2 hours, laboratory 2 hours. Credit 2⅔.

A study of the principles involved in the planning and decorating of public and private grounds and the selection of ornamentals adapted for planting in Oklahoma. Practice consists in designing plans, laying out drives and walks, and planting flower beds, shrubs and trees.

Text: "Landscape Gardening", Maynard.

Reference: "The Landscape Beautiful", Waugh.

404 History and Literature of Horticulture. Class 2 hours. Credit 2.

Open only to students taking the horticultural course. A study

of current horticultural literature, including a review of horticultural periodicals, bulletins and United States Government publications.

Text: "Fruit Harvesting, Marketing and Storing", Waugh; "Bush Fruits", Card.

Reference: "The Apple", Waugh; "Peach-Growing", Gould; "Foundation of American Grape Culture", Munson.

405 Forestry. Class 2 hours. Credit 2.

A lecture and field course dealing with the general principles of forestry, relation of forestry to agriculture, windbreaks, shelter belts, lumbering, and conservation.

Prerequisite: Bot. 101, 102.

Text: "Principles of American Forestry", Green.

Reference: "Practical Forestry", Gifford.

406 Forestry. Class 3 hours, laboratory 2 hours. Credit 3⅔.

A study of the fundamental principles of forestry, together with a detailed study of the forests of Oklahoma. This course is designed to meet the needs of students who wish to specialize in forestry.

Prerequisite: Hort. 306, 405; Bot. 305.

Theory work given by lectures.

409 Thesis. Laboratory 3 hours. Credit 1.

Special subject requiring some independent investigation; results to be presented in written report.

Required of all horticulture students.

410 Thesis. Laboratory 3 hours. Credit 1.

Special subject requiring some independent investigation; results to be presented in written report. A continuation of 409.

Required of all horticulture students.

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DEPARTMENT OF POULTRY HUSBANDRY

HARRY EMBLETON, *Professor*
———————, *Assistant Professor*
D. C. BROWER, *Farm Foreman*
VERN ABBOTT, *Farm Assistant*

The growing interest in the poultry industry in this State is creating a considerable demand for knowledge along poultry lines, both from the practical standpoint and from the standpoint of the poultry educator. The courses in this department are designed to meet both of these conditions.

The Jackson Poultry Law requires that a majority of the schools in Oklahoma hold a poultry and egg show during the year. This means that the teachers in the State, in order to be qualified to teach their work, should have some poultry knowledge. Our course of instruction takes this condition under consideration and makes it possible for teachers to get this necessary poultry knowledge.

There is a growing demand on the part of the boys and girls

for purebred poultry and for information as to what is purebred poultry. The course is designed to give the teacher this necessary information.

The awakening of poultry interest is countrywide, and is creating a great demand for scientifically trained poultrymen for instructional, investigational and extension work. A student having completed the course in poultry husbandry will be eligible for work of this kind both with the State and Government.

The Poultry Department is equipped with a large administration building which includes classrooms, incubator cellars, egg rooms, etc. This building is located at the plant. The plant consists of thirteen acres of land arranged with breeding and laying houses so as to get the best results. The houses consist of one long ten-pen laying house and twelve other smaller houses to use for breeding and experimental work. The brooding system consists of one larger brooder house of a 2,000-chick capacity, with several smaller houses for smaller flocks. Most of these houses are equipped with colony brooder stoves. The incubation equipment consists of two large incubation cellars containing one 1,200-egg incubator and several smaller ones of many different makes.

The stock consists of fifteen different breeds and varieties, which are used for instructional, investigational and breeding purposes. All of the stock is trap-nested and records of the same are available for use in the work. The capacity of the plant is 1,000 birds. At the present time the size of the flock is 800 birds.

SUBJECTS

305 Farm Poultry. Class 2 hours, laboratory 4 hours. Credit 3½.

This course considers the identification and characteristics of the principal breeds and varieties of poultry; the feeding of the farm flock, with a week's feeding practice morning and night at the farm; the comparison of the different types of incubators and brooders; poultry house construction; care of growing stock; breeding for egg-production; poultry diseases; dry picking of poultry; marketing poultry and eggs; caponizing; study of the egg; anatomy; judging poultry and eggs.

This course is outlined for teachers and persons raising poultry on the farm. It is arranged to give the teachers a good foundation in poultry teaching for the future school work in the State, and to aid the producer to get profitable egg production.

No prerequisite.

308 Incubation and Brooding. Class 1 hour, laboratory 6 hours. Credit 3.

Each student will be required to select eggs, operate a machine through an entire hatching, keep all the records pertaining to the hatch, feed and care for the little chicks after they hatch out for a two weeks' period. This work comes early in the morning before 8 o'clock, and in the afternoon between 4:30 and 5:30 o'clock. Every student will be required to be at the farm morning and night at these hours, Sunday included, for five consecutive weeks.

No prerequisite.

310 Poultry-Judging. Laboratory 2 hours. Credit ⅔.

The work in this course will consist of practical work in judging fowls by the standards set forth in the American Standard of Perfection. This is judging them purely from the fancy standpoint. In addition to judging, the question of mating pens and running of poultry shows will be taken up in connection with this work.

No prerequisite.

401-402 Poultry Seminar. Class 1 hour. Credit 1.

This course will consist of the study of the most advanced poultry problems and experimental work, and will keep in touch with the newest ideas and information obtainable for the poultry work.

Prerequisite: P. H. 305, 308, 309.

403 Poultry Research. Class 1 hru, laboratory 4 hours. Credit 2⅓.

Each student enrolled in this course will be given a definite, specific piece of experimental work to be worked out on their own responsibility. This will give them a chance to use their initiative, imagination and poultry knowledge obtained from the previous courses. It will also give them an insight into methods of conducting experimental work.

Prerequisite: P. H. 305, 308, 309.

406 Poultry Management. Class 2 hours. Credit 2.

This course embraces the business end of tthe poultry flock. Figuring of incubation capacities, brooding capacities, winter laying house capacities, day-old chick and hatching egg question, possible profits from a definite size poultry flock, the choosing of poultry farms as to their topography, location, climatic conditions, etc., to be considered. The scoring of poultry farms from the standpoint of poultry farm efficiency will be considered.

Prerequisite: P. H. 305, 308, 309, 401, 403.

408 Poultry Extension Work. Class 2 hours. Credit 2.

In this course will be considered the psychology of poultry extension work. Both work with adults and boys and girls will be considered. Various types of instruction in order to reach different classes of people will be studied. Chart-making will be taken up and gone into thoroughly. Window displays, fair exhibits, etc., will be discussed. This course will prepare for poultry extension work along many of its branches.

Prerequisite: P. H. 305, 308, 309, 401, accompanied by P. H. 402, 406.

DEPARTMENT OF FARM MECHANICS AND FARM ENGINEERING PARCTICE

——————————— *Professor*

The courses in farm mechanics are aimed to give the student the practical knowledge of farm machines, motors, tractors, farm structures, irrigation, drainage and rural roads with which knowledge the farmer must be equipped to farm successfully today. Improved tillage, seeding, harvesting and feed preparing machinery has increased the capacity and decreased the working hours of farm labor.

The modern farm motor and tractor give ready and ample sources of power to meet the increasing demands of agriculture. The improvement in farm buildings of all kinds has been of great benefit to farm economy. Improved rural roads have brought the farm and market closer together. Irrigation has great possibilities in some sections, while drainage is of equal value in others.

The demand for teachers, farm managers, county agents, experts for farm implement firms and for tractor companies, men for United States Government and railroad work, especially trained in these subjects is great. To the man who intends to return to the farm and work for himself, this training is of particular value.

The department is supplied with the various kinds of farm machines, gas and oil engines, tractors, models of silos, barns, etc., levels and farm surveying instruments, and drainage tools to give practical work in these courses.

SUBJECTS

101 Farm Mechanics. Class 1 hour, laboratory 3 hours. Credit 2.

A general course for all students in agriculture, covering briefly rope-tying and splicing, principles of draft, cultivating, seeding and harvesting machinery, farm power, water supply, elements of leveling, terracing.

Text: "Agricultural Engineering", Davidson.

303 Farm Motors. Class 2 hours, laboratory 4 hours. Credit 3⅓.

A study of the working principles, operation and costs of the various types of gas and oil engines. Gas tractors. Special attention is paid to the modern oil engine as an economic source of power for irrigation and other heavy duty work. Special emphasis is given to the practical application of power to farm machinery.

Prerequisite: F. E. 101.

304 Farm Structures. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Design, construction, materials and cost of farm buildings, includ-

ing barns, silos, machine sheds, swine and chicken houses. Farm concrete construction.

Prerequisite: F. E. 303.

Text: "Farm Structures", Ekblaw.

409 Farm Power Machinery. Class 2 hours, laboratory 4 hours Credit 3⅓.

A study of the various powerdriven machines of the farm—grinders, shellers, ensilagecutters, thrashers, irrigation pumps, electric light plants, home water supply systems—in connection with the various prime movers. The installation of gearing, belting and shafting on the farm. Farm power house.

Prerequisite: F. E. 303, 304.

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GENERAL AGRICULTURE

402 College and Experiment Station Work, Organization and Function. Class 1 hour. Credit 1.

This course is intended to familiarize the Senior students with the history and organization of the American land grant colleges, including the agricultural experiment stations and the extension divisions. A study is made of the strong and weak points of these institutions as compared with other institutions of higher education in the United States from the standpoint of both the undergraduate and graduate student. The amount of Federal and State aid given these institutions and its distribution into educational, research and extension lines is discussed. The further object is to familiarize the student with the lines of work being undertaken in the various experiment stations and the special features that are made prominent in the various States. The laboratory work will be in the nature of research in the library. The course is designed to prepare students for entrance into college and station work where such is desired and to give those who are going into the more practical application of their calling upon the farm an opportunity to become familiar with the different institutions and the best means of utilizing tthe information available.

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DEPARTMENT OF VOCATIONAL AGRICULTURAL EDUCATION

——————— *Professor*

The Department of Vocational Agricultural Education is a department of the School of Agriculture recently established to offer the professional work for prospective teachers in Smith-Hughes schools of secondary grade. The work offered meets the provisions of the Federal act, and the work of the department is under the supervision of the State Federal Board for Vocational Education.

The work of the department is confined largely to instruction in methods of teaching agriculture, practice teaching, and study of plans of organization of vocational schools, while the subject

matter proper in agriculture is under the supervision of the subject matter department.

For description of four-year course of study, see table of four-year courses preceding.

SUBJECTS

403 Agricultural Education. Class 3 hours. Credit 3.
Organization and development of agricultural education in the United States, with special reference to teaching agriculture in schools below college rank; organization and presentation of subject matter adapted to use in secondary schools. Some time will be given to practicum work and to practice teaching.

421 Agricultural Education—Practice Teaching. Practice 4 hours. Credit 1⅓.
Development of lesson plans and methods in secondary education; observation and practice teaching, with full charge of classroom under competent supervision.
Prerequisite: Education 102.
Required of all students preparing to become "Smith-Hughes" teachers of agriculture. Not to be taken before the Junior year.

422 Agricultural Education—Practice Teaching. Practice 4 hours. Credit 1⅓.
This course is a continuation of Agricultural Education 421.
Prerequisite: Agricultural Education 421.

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DIVISION OF SECONDARY VOCATIONAL AGRICULTURE

———— *Assistant Professor*
FRED MCCARRELL, *Instructor*

The following vocational courses are offered by the School of Agriculture:

1. Secondary Vocational Agriculture, two years.
2. Short Course in Practical Agriculture.
3. Farmers' Course in Agriculture.
4. Six Weeks Regular Dairy Course.
5. One Week's Special Dairy Course.

Secondary Vocational Agriculture (Two Years)

This course is planned for students who have completed the eighth grade of the common schools, and is designed to fit the student upon the completion of the course for diversified farming as may be satisfactorily practiced under Oklahoma conditions. The course cannot be considered in any sense a specialized course. Enough of the vocational subjects, such as livestock, crops, soils, poultry, etc., is given to give the student reasonable proficiency. The foundations are laid, and it is believed that the interest of

the students will be stimulated to continue in their chosen specialties.

This course is organized, supervised and supported by the State and Federal Governments under the terms of the Smith-Hughes Law. Specialists will handle the classes in every case, and similar opportunities for the use of laboratories, greenhouse, livestock and farms will be given to students in this course as in the regular College courses. The course is intensely practical, and its success is assured.

OUTLINE OF COURSE

FIRST YEAR

FIRST SEMESTER	Cl.	Pr.	SECOND SEMESTER	Cl.	Pr.
English 11	4		English 12	4	
General Science 11	2	(4)	General Science 12	2	(4)
Field Crops 11	2	(4)	Soils 12	2	(4)
Livestock 11	2	(4)	Vegetable Gardening 12	2	(2)
Woodwork 11		(4)	Forge 12		(4)
Project 11		(6)	Project 12		(6)
Physical Education		(3)	Physical Education		(3)
Military		(3)	Military		(3)

SECOND YEAR

	Cl.	Pr.		Cl.	Pr.
English 21	4		English 22	4	
Arithmetic 21	4		Farm Accounts and Management 22	2	(4)
Dairying 21	3	(4)	Animal Diseases 22	2	(2)
Field Crops 21	2	(4)	Entomology 22	3	(2)
Fruit Growing 21	2	(2)	Farm Machinery 22	1	(4)
Farm Structures 21		(2)	Livestock 22	2	(4)
Poultry 21	2	(4)	Project 22		(6)
Project 21		(6)	Military		(3)
Military		(3)			

SUBJECTS

Agronomy

11 Field Crops. Class 2 hours, laboratory 4 hours.

Practical lessons will be given in harvesting, storing, seedbed preparation, planting and cultivating the leading cereal and fiber crops of Oklahoma. Much time will be given to grain-judging, cotton-judging, seed selection, seed testing and treatment for smut.

Text: Productlve Farm Crops", Montgomery.

21 Field Crops. Class 2 hours, laboratory 4 hours.

Practical lessons will be given in seedbed preparation, planting, cultivating, harvesting and storing the leading forage crops of Oklahoma. Laboratory work will consist of field observations, seed selection and seed testing.

Text: "Productive Farm Crops", Montgomery.

12 Soils and Fertility. Class 2 hours, laboratory 4 hours.

Attention will be paid to the fundamental principles underlying soil management; study will be made of how plants feed and grow; properties of the soil; plant food in the soil; conservation of soil fertility; crop rotation; barnyard manure; humus; fall plowing and testing soil for acidity.

Text: "Soils and Soil Fertility", Whitson and Walster.

22 Farm Accounts and Management. Class 2 hours, laboratory 4 hours.

Simplified methods of keeping farm accounts and records will be given, including stock and crop accounts, expenses and receipts, which will enable the farmer to determine his income. Study is made of points to be considered in the selection of the farm, types of farming, planning and arrangement of the farmstead, the fields and crop rotations. Special emphasis is laid on the principles underlying successful management of the farm business in order to receive the greatest continuous profit from the farm.

Text: "Simplified Farm Account Record Book", Hoke and Beeson; "Farm Management", Andrew Bass.

Animal Husbandry

11 Livestock. Class 2 hours, judging 4 hours.

This course is intended to give the student an insight into the business of judging animals and by actual practice to acquaint him with the good points of the various classes of livestock. The course is somewhat general. Some time will be given to market types, and a short study will be made of the production of correct market types of animals.

No text.

22 Livestock. Class 2 hours, judging 4 hours.

This course gives the student a training in breed types of animals. The student studies the history of our important breeds of animals, and with the good livestock of the Animal Husbandry Department before him he gets acquainted with the types and characteristics of the more important breeds.

Text: "Animal Husbandry for Beginners", Plumb.

Animal Diseases

22 Animal Diseases. Class 2 hours, laboratory 2 hours.

It will be the purpose of this course to acquaint the student with the more common diseases of farm animals without going into scientific details. The prevention of disease will receive more attention than the actual treatment. Laboratory work will consist of observation, assistance and the taking of notes on animals undergoing treatment at the College Veterinary Hospital and vicinity.

Text: "Common Diseases of Farm Ainmals", Craig.

Dairying

21 Dairying. Class 2 hours, laboratory 4 hours.

An elementary course in dairying, including the testing of milk and cream by the Babcock test, the operation of cream separators and farm churning of butter, cotage cheese and ice cream-making, a study of dairy cows, their feeding and management, and the producing and handling of market milk.

Text: "Dairy Farming", Michels.

Entomology

22 Entomology. Class 3 hours, laboratory 2 hours.

Instruction will be given in lectures, consequently no textbook will be required. The habits of injurious and beneficial insects will be explained. Methods for controlling the injurious forms will be tested in practice as far as conveniences will permit. Methods for develop-

ing beneficial forms will be taught. Primary practice in beekeeping will be given.

Horticulture

12 Home Vegetable Gardening. Class 2 hours, laboratory 2 hours.

This course includes the general principles of vegetable culture, and a study of the home garden.

21 Home Fruit-Growing. Class 2 hours, laboratory 2 hours.

A course dealing with the general principles of fruit-growing, including a study of cultural requirements, propagation and the relative importance of the different fruits for home use.

Farm Mechanics

21 Farm Structures. Shop practice 2 hours.

Study of various types of buildings for farm use—dwellings, barns, hog houses, chicken houses, silos, etc. Drawings examined on types studied, and structural details mastered. Models examined on College farm.

22 Farm Machinery. Class 1 hour, laboratory 4 hours.

This course consists of an elementary study of the construction of and best methods of operating the various farm implements used in seedbed preparation, cultivation, seeding and harvesting. A study is made of the various power-driven machines on the farm—the grinder, sheller, ensilage-cutter, tractor thrasher, lighting plants and home water supply systems.

Poultry

21 Poultry. Class 2 hours, laboratory 4 hours.

The work in this course will cover all phases of poultry work necessary for practical poultry-raisers, either on the farm or in town. A study of breeds and types will be made from the utility standpoint. Feeding, incubation and brooding, housing, poultry diseases, marketing of poultry and eggs, caponizing, picking and killing, and study of the egg will be considered. Special stress will be put upon factors which deal primarily with egg production.

Miscellaneous

11, 12, 21, 22 English.

Same as in non-vocational courses. (See description under courses in Secondary School.)

11, 12, 21, 22 Projects. Practice 6 hours.

Projects covering some definite phase of agricultural endeavor are required of all students. A project is a definite job, such as growing a crop or raising some livestock, which must be carried through to completion. Each project must carry some financial interest for the student. Reports upon projects will be required.

11, 12 General Science. Class 2 hours, laboratory 4 hours each.

In Vocational Agriculture, Trades and Vocational Home Economics, main part of content the same for all. Laboratory.—Elementary physics, chemistry and biology. Unity of course psychological rather than logical. Limited to applied science as much as possible.

12, 22 Forge. Shop practice 3 hours each.

First blacksmithing—heating, shaping and welding. Tempering

and hardening of steel. Pipefitting and drillpress work. Covered in lectures and practice. No. 12 is the same as 22 in non-vocational courses.

For description of other courses, see courses offered in the Secondary School.

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SHORT COURSE IN PRACTICAL AGRICULTURE

The Short Course in Practical Agriculture which has proved to be a very popular course with a certain class of students, will be continued. The course as now outlined consists of two years work of twelve weeks each, beginning in 1919, November 24, and closing February 27, 1920.

Each years work is divided into three terms of four weeks each, beginning respectively November 24, 1919, and January 5, and February 2, 1920. Each terms work is complete in itself, and students may enter at the beginning of any term, but they are urged to take the full course, especially since the second years work is advanced work. Students who have not completed the whole of the first years work may find difficulty in carrying it.

This course is designed for young men from the farms of Oklahoma who have not the itme or the inclination to take a regular course in the high schools of the State, to be followed by a four-year course in scientific agriculture in this institution, nor yet the time to take the regular vocational course, yet who desire a training in the practical application of the science of agriculture to the business of farming. It provides a course of study that will give the student a maximum of the agricultural studies re-relating to farm and livestock work, and in addition gives as much of the general studies as may be most useful in training young men to become leaders in their chosen calling on the farms of the State.

The entire equipment of the College—the teaching force, the library, and the results obtained in experimental work—are at the service of the students of the Short Course.

There are no examinations to be passed for admisison to this course. The prospective student must be at least sixteen years of age and must have had training equivalent to a good, common school education.

Write for Information

For illustrated circular giving full details concerning the Short Course, write the Secretary of the A. and M. College, Stillwater, Oklahoma.

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SHORT COURSE IN PRACTICAL AGRICULTURE
COURSE OF STUDY

FIRST YEAR

FIRST TERM	Hours Rec.	Lab.
Field Crops 1	6	8
Stock Judging 1	6	8
Agricultural Chemistry 1	4	
Shop 1		8
Gymnasium		2

SECOND TERM	Hours Rec.	Lab.
Vegetable Gardening	6	4
Farm Dairying	1 4	8
Farm Poultry	1 4	8
Library Practice 1		4
Gymnasium		2

THIRD TERM	Hours Rec.	Lab.
Soil Physics 1	6	8
Farm Machinery 1	6	8
Farm Bookkeeping 1		8
Forestry and Landscape Gardening 1	4	
Gymnasium		2

SECOND YEAR

FIRST TERM	Hours Rec.	Lab.
Fruit Growing 1	6	6
Dairy Management 1	6	4
Soil Fertility 1	6	
Vet. Science 1	4	6
Prices, Markets and Credits 1	3	
Gymnasium		2

SECOND TERM	Hours Rec.	Lab.
Field Crops 2	6	4
Breeds and Breeding 1	3	6
Farm Motors 1	6	8
Bacteriology 1	6	
Gymnasium		2

THIRD TERM	Hours Rec.	Lab.
Animal Production 1	3	6
Poultry Judging 2	6	4
Shop 2		8
Insects and Their Control 1	3	
Farm Management 1	5	
Rural Life and Institutions 1	3	
Gymnasium		2

SUBJECTS

Library Practice 1. Laboratory 4 hours per week.

This course is designed to teach the student how to look up material upon any subject in which they may be interested. Subjects will be assigned, and the material covering the subject will be located in the library, read and discussed.

Shop 1 Forging and Ironwork. 8 hours per week.

Common practice in forging, building fire, drawing out, upsetting, shaping, welding, drillpress work, taps, pipefitting and soldering are taught in their practical application to farm life.

Text: "Forge Practice", Bacon.

Shop 2 Woodwork and Farm Carpentry. 8 hours per week.

Elemental tool process used in common woodwork, care of tools, saw sharpening, brace and rafter-cutting covered by lectures and practice on actual constructive work.

Text: "Woodwork Notes", Hunt; "Carpentry", Grifith.

Field Crops 1......Class 6 hours, laboratory 8 hours.

The various cereals and varieties of cotton which are adapted to Oklahoma conditions are studied in this course. The following subjects, as related to these corps, will be considered: Seedbed prepara-

tion, planting, cultivating, harvesting and storing. The fundamental principles of crop production are developed as demonstrated by practical experience. In the laboratory the work is devoted to grain-judging, seed selection, seed testing and the treating of seed for smut.

Soil Fertility 1. Class 6 hours, laboratory 8 hours.

A practical course dealing with the underlying principles of soil management. Special stress will be placed on the problem of soil acidity, alkali and special crop adaptation to various types of soil.

Soil Fertility 1. Class 6 hours, laboratory 8 hours.

In this course emphasis will be placed on crop rotation, green manures and bardyard manures as a means of maintaining soil fertility. The proper use of fertilizers, kind and applicability will be discussed.

Field Crops 2. Class 6 hours, laboratory 4 hours.

The crops considered in the classroom are the grain sorghums and various forage crops adapted to Oklahoma. The laboratory time is taken up with the judging, selection and testing of grain sorghum heads and seeds. Weeds and weed seed, their identification, eradication and control are given considerable time.

Farm Bookkeeping 1. Laboratory 8 hours.

A practical course dealing with the underlying principles and methods of farm bookkeeping enabling the farmer to determine the yearly income. Special emphasis will be placed on cost of production, farm inventories, stock and crop accounts and their relation to the organization and management of the farm.

Text: "Simplified Farm Account Record Book", Hoke and Beeson.

Farm Management 1. Class 5 hours.

In this course emphasis will be placed on planning and arranging the fields and crop rotations, the relation of livestock to crop production, the maintenance of permanent agriculture, and the principles underlying the successful management of the farm business in order to receive the greatest continuous profit from the farm.

Stock-Judging 1. Lecture 6 hours, laboratory 8 hours.

The lecture work of this course comprises a study of all the common feedstuffs of Oklahoma, including mill feeds and factory by-products, as well as those grown on the average farm. A study of the composition of feedstuffs, balancing rations, etc., will also be made.

The laboratory work includes a thorough drill in judging horses, beef cattle, dairy cattle, sheep and swine. The student first learns the use of the score card, and later judging by comparison is given. This course will be given in a practical manner. It also should be a valuable course, as some of the best stock in America will be used, including an opportunity to study the individuals which make up the College show herds.

Text: On breeding, Henry and Morrison; text on judging, "Judging Livestock", John A. Craig.

Breeds and Breeding 2. Lecture 3 hours, laboratory 6 hours.

The lecture work will be devoted to the subject of animal breeding. Some of the topics to be discussed are as follows: Crossing,

hybridization, grading, prepotency, line breeding and inbreeding, and other practical subjects.

In the laboratory the judging of the different breeds of livestock will be given. The breed characteristics of each breed will be studied.

Text in animal breeding; "The Breeding of Animals", Mumford; "Judging Breeds of Livestock", Gay.

Animal Production 1. Lecture 3 hours, laboratory 6 hours.

The lecture work will be taken up with a study of the best practices for the production of beef cattle, dairy cattle, horses, sheep and swine. Caring, housing and practical feeding methods will also be discussed.

The laboratory work in the third period will be known as Advanced Stock Judging. Plenty of drill in judging will be given, and from this class a student judging team will be selected to compete at the Southwest American Livestock Show, Oklahoma City, each year.

Farm Machinery 1. Class 6 hours, laboratory 8 hours.

Practical lessons are given in the best methods of operating the various farm implements used on the farm, including the various power-driven machines—the grinder, sheller, ensilage-cutter, thrasher, light plants and house water systems.

Farm Motors 1. Class 6 hours, laboratory 8 hours.

A practical course is given in the operation and working principles of the various types of stationary gas and oil engines, and tractors. Special emphasis is given to the practical application of the tractor and power to farm use.

Insects and Their Control 1. Class 3 hours.

General lectures will be given pertaining to the control of insects injurious to field crops, horticulture and gardens. The lectures will either be accompanied by lantern slide illustrations or with exhibits of the pests under consideration. Control methods will be demonstrated when possible.

Farm Poultry 1. Class 4 hours, laboratory 8 hours.

This is a practical course in poultry, aiming to fit the person to give more intelligent care to the farm flock. It will also give a good foundation to any one wanting to go into the poultry business on a specialized basis.

This course will include work upon the identification of breeds and varieties, housing, feeding, diseases, marketing, breeding for egg production, caponizing, incubation and brooding, and poultry management.

All the facilities of our large poultry plant, including twenty-seven pens of fifteen different breeds and varieties, latest model incubators, and blue-flame coal oil burning brooders, will enable the actual work being done with all these necessary poultry appliances.

Poultry-Judging 2. Class 6 hours, laboratory 4 hours.

Poultry-judging and preparing birds for show purposes will be discussed and the actual work done. Our fifteen varieties of poultry, representing nearly all the different types, colors and feather patterns in poultry, will assure the subject being covered in a broad way. The question of poultry management will be taken up and thoroughly gone into.

Considerable importance will be placed upon culling out the poor individuals from the egg-laying standpoint.

Farm Dairying 1. Class 4 hours, laboratory 8 hours.

Lectures and laboratory work on the testing of milk and cream by the Babcock test; the production, care and handling of milk and cream for city markets and creameries; the care and ripening of cream for farm buttermaking; care and operation of cream separators and the marketing of dairy products. The course offers practical instruction in all branches of farm dairying.

Dairy Management 1. Class 6 hours, laboratory 4 hours.

Lectures and practical instruction in the breeding, feeding and management of dairy cattle; keeping of records and advanced registry testing; cow testing and purebred bull associations.

Prices, Markets and Credits 1. Class 3 hours.

The basis for this course is laid in a brief comparison of the principles of economics, business and marketing. In the study of prices, markets and credits, the following points are emphasized: Effect of cost of production on price, the right price, the trend of prices of agricultural products and reasons therefor; location of markets, creation of market demand, inside organization of markets, the improved use of market machinery by farmers, with special attention to cooperative marketing; use of money and credit in business; the advantages and dangers of credit; the organization of credit machinery, including description of Federal Farm Loan system.

Rural Life and Institutions 1. Class 3 hours.

An examination of the factors underlying rural social progress and prosperity. Emphasis is given to tthe possibility of coordinating all the agencies of rural life. Special attention is directed to the methods by which the social advantages of city life may be brought to the farm. The farm home, consolidated school, community church, good roads, tenancy and community cooperation, are viewed in their relation to social and economic development.

Vegetable Gardening 1. Class 6 hours, laboratory 4 hours.

This course includes the general principles of vegetable culture, dealing principally with the study of the home garden. Some attention will be given to vegetable and market gardening. Garden soils, fertilizers and various cultural features will also receive attention.

Text: "Productive Vegetable-Growing", Lloyd.

Reference: "Vegetable-Growing", Boyle.

Fruit-Growing 1. Class 6 hours, laboratory 6 hours.

The topics considered include selections of orchard sites, choosing varieties, planting, pruning, cultivating and fertilizing. The practical work includes making of orchard plans, laying out the orchard, planting, pruning and spraying. The identification of fruits will also be given some attention.

Text: "Productive Orcharding", Sears.

Reference: "Fruit-Growing in Arid Regions", Paddock and Whipple.

Forestry and Landscape Gardening 1. Class 4 hours.

This work takes up the study of the needs of Oklahoma farms for windbreaks and woodlots with special reference to their value as protection to buildings, orchards and fields, as well as their value for fuel and post purposes.

The fundamental principles involved in planting and arranging the home and public grounds will also be briefly considered.

Theory work given by lecture.

Reference: "Farm Forestry", Ferguson; "Landscape Gardening as Applied to Home Decoration", Maynard.

Bacteriology 1. Class 6 hours.

This work will consist of a series of lectures and demonstrations dealing with rural sanitation, causes and means of control of the more common infectious diseases of livestock. Current builetins dealing with diseases of livestock will be used as references. No text will be required.

Veterinary Medicine 1. Class 4 hours, laboratory 6 hours.

The object of this course will be to acquaint the student with the more common diseases of livestock. Prevention of disease and care of stock will receive more attention than treatment. Frequent clinics will be held to familiarize students with location of various troubles. Students will be given opportunity to know the current methods of vaccinating hogs, cattle and other farm animals.

Text: "Diseases of Farm Animals", Craig.

Agricultural Chemistry 1. Four lectures each week.

A brief informational course intended to acquaint the student with the more important applications of chemistry to practical agriculture. The lectures are accompanied with mimeographed outlines and very numerous demonstration experiments.

THE SCHOOL OF ENGINEERING

ALFRED BOYD, *Dean*

In compliance with the provisions of the Morrill land grant, the teaching of engineering was begun at the Oklahoma Agricultural and Mechanical College by the establishment of a course in mechanical engineering. The first class was graduated in 1902. Later, courses in electrical, civil, architectural and chemical engineering were added in the order named. As far as practicable, in the development of courses, they have been kept closely related to the important industries of the State. With the growth of manufacturing, of the oil industry, the increased use of electrical power, the improvement of highways, of water supply systems, and increased interest in better buildings, the importance of having men with the proper training will be more fully recognized.

There are two large buildings on the campus devoted to the work of instruction in engineering. These are the Engineering Building and the Shop Building. The former was erected in 1912 at a cost of $75,000.00. It is three stories high, covers an area 160 by 80 feet, and is built of reinforced concrete and brick with stone trimmings. On the ground floor are located the steam and hydraulic laboratories, the electrical laboratory, the laboratories for the testing of structural materials and road materials, storage batteries, room for surveying instruments and office for the dean. On the next floor are the physics laboratory and lecture room, four other lecture rooms for the different departments, rooms for photometry, physical apparatus, and offices for the heads of departments. On the top floor are the large drafting rooms, classrooms and offices for several of the departments, and rooms for the storing of records.

The Shop Building is of stone and brick and covers an area of 40 by 200 feet. For a depth of 80 feet it is two stories high and the balance one story. It provides accommodatons for the wood shop, machine shop, forge shop and foundry, and a toolroom.

The power plant of the College, with its steam boilers, steam engines and generators, is also used by the School of Engineering for the purpose of making tests and familiarizing the student with the use of this class of machinery.

Mention should be made of the Engineering Society, an organization composed of students from the various engineering departments. They meet twice a month for the discussion of engineering subjects. These meetings tend to encourage a lively interest in practical engineering work, and give the students confidence in speaking before an audience.

Professional Degrees in Engineering

For information in regard to profesional degrees in engineering and the conditions under which they are granted to graduates of the School of Enginering, see Requirements for Graduation.

Experimental Work in Engineering

The departments of the School of Engineering are prepared to carry on in the shops, laboratories and field, research work of value to the industries of Oklahoma. Those lines of investigation are undertaken which are important in the development of the State's resources, or in adding to the health and comfort of the people of the State.

Some of the subjects of particular interest to the people of Oklahoma are the following:

The properties of petroleum and its economical use in the industries.

The utilization of natural gas.

The examination and testing of the various structural and road materials to be found in Oklahoma.

The study of the problems of water supply and sewage disposal as related to the health of rural and urban communities.

Experimental work to determine the proper methods of irrigation and drainage to suit Oklahoma conditions.

COURSES IN THE SCHOOL OF ENGINEERING

The following outline of study represents the required and elective work in the School of Engineering. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject and the even numbers, as 102, the second semester's work. Subjects of the Sophomore, Junior and Senior years are numbered accordingly, two hundred for Sophomore, three hundred for Junior and four hundred for Senior work. One hour of laboratory period is equivalent to one-third of a classroom period in estimating the number of hours per week to be taken.

The total requirements for graduation are 128 credits, exclusive of any credits given in military science and physical education. Students will not be allowed to register in fewer than twelve nor more than twenty credit hours.

In the outline below, figures without parenthesis indicate hours of classwork, in parenthesis hours of laboratory work.

Architecture and Architectural Engineering

FRESHMAN YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 101, College	3		3
Chem. 101, Inorganic	3	(4)	4⅓
Math. 105, College Algebra	4		4
Arch. 111, Descriptive Geometry	2		2
Arch. 103, Freehand Drawing		(4)	1⅓
Arch. 105, Elements of Architecture		(4)	1⅓
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Eng. 102, College	3		3
Chem. 102, Inorganic	2	(4)	3⅓
Math. 108, Plane Trigonometry	3		3
Arch. 112, Descriptive Geometry	1	(6)	3
Arch. 104, Freehand Drawing		(4)	1⅓
Arch. 106, Elements of Architecture		(6)	2
Physical Education		(3)	
Military Science		(3)	

Architecture

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Arch. 211, History of Architecture	2		2
Eng. 209, Technical Writing	2		2
Arch. 207, Drawing from Antique		(4)	1⅓
Arch. 209, Architectural Design		(9)	3
Arch. 307, Water Color Painting		(3)	1
C. E. 201, Surveying		(3)	1
Physics 201, General	4	(3)	5
Shop 101, Woodwork		(4)	1⅓
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Arch. 212, History of Architecture	2		2
Arch. 214, Building Construction	2		2
Arch. 208, Drawing from Antique		(6)	2
Arch. 210, Architectural Design		(9)	3
Arch. 308, Water Color Painting		(3)	1
Physics 202, General	4	(3)	5
Pub. Spk. 123, Essentials	2		2
Shop 108, Carpentry		(4)	1⅓
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Arch. 303, Applied Mechanics	2		2
Arch. 321, Water Color Rendering		(3)	1
Arch. 309, Working Drawings and Estimates	1	(6)	3
Arch. 311, Architectural Design		(12)	4
E. E. 411, Wiring and Illumination	2		2
Elective	4		4

SECOND SEMESTER	Hours		Cr.
Arch. 304, Strength of Materials	2		2
Arch. 322, Pen and Ink Rendering		(3)	1
Arch. 314, Drawing from Antique		(6)	2
Arch. 312, Architectural Design		(15)	5
Econ. 406, Economics and Contracts	2		2
E. E. 412, Dlnamo Electric Machinery	2		2
Elective	3		3

SENIOR YEAR

FIRST SEMESTER

	Hours	Cr.
Arch. 401, History of Painting	1	1
Arch. 403, Life Class	(6)	2
Arch. 407, Architectural Design	(21)	7
Arch. 305, Plumbing and Drainage	2	2
C. E. 401, Structural Design	(6)	2
Elective	2	2

SECOND SEMESTER

	Hours	Cr.
Arch. 414, History of Sculpture	1	1
Arch. 404, Clay Modeling	(4)	1⅓
Arch. 408, Architectural Design	(21)	7
Arch. 406, Seminar	1	1
M. E. 424, Heating and Ventilation	2	2
Elective	4	4

Architectural Engineering

SOPHOMORE YEAR

FIRST SEMESTER

	Hours	Cr.
Arch. 211, History of Architecture	2	2
Arch. 209, Architectural Design	(9)	3
C. E. 201, Surveying	(3)	1
Math. 207, Analytical Geometry and Calculus	5	5
Physics 203, General	3 (3)	4
Shop 101, Woodwork	(4)	1⅓
Military Science	(3)	

SECOND SEMESTER

	Hours	Cr.
Arch. 212, History of Architecture	2	2
Arch. 214, Building Construction	2	2
Arch. 210, Architectural Design	(9)	3
Physics 204, General	3 (3)	4
Math. 208, Calculus	5	5
Shop 108, Carpentry	(4)	1⅓
Military Science	(3)	

JUNIOR YEAR

FIRST SEMESTER

	Hours	Cr.
Arch. 207, Drawing from Antique	(4)	1⅓
Arch. 309, Working Drawings and Estimates	1 (6)	3
Eng. 209, Technical Writing	2	2
C. E. 301, Applied Mechanics	3	3
M. E. 311, Steam and Gas Engines	2	2
Pub. Spk. 101, Essentials of Public Speaking	2	2
Elective	2	2

SECOND SEMESTER

	Hours	Cr.
Arch. 310, Advanced Working Drawings	(6)	2
Arch. 208, Drawing from Antique	(6)	2
C. E. 302, Mechanics of Materials	3	3
E. E. 412, Dynamo-Electric Machinery	2	2
C. E. 308, Testing Laboratory	(3)	1
C. E. 310, Framed Structures	2 (6)	4
Elective	2	2

SENIOR YEAR

FIRST SEMESTER

	Hours	Cr.
Arch. 307, Water Color Painting	(3)	1
Arch. 311, Architectural Design	(12)	4
Arch. 305, Plumbing and Drainage	2	2
E. E. 411, Wiring and Illumination	2	2
C. E. 411, Steel Construction	2	2
C. E. 401, Structural Design	(6)	2
C. E. 415, Reinforced Concrete	2	2
Elective	1	1

SECOND SEMESTER

	Hours	Cr.
Arch. 312, Architectural Design	(15)	5
Arch. 308, Water Color	(3)	1
Arch. 406, Seminar	1	1
M. E. 424, Heating and Ventilation	2	2
C. E. 402, Concrete Structures	(6)	2
Econ. 406, Laws of Contracts	2	2
Elective	3	3

Two-Year Special Course in Architecture

FIRST YEAR

FIRST SEMESTER

	Hours		Cr.
Arch. 211, History of Architecture	1	(2)	1⅔
Arch. 207, Drawing from Antique		(4)	1⅓
Arch. 307, Water Color Painting		(3)	1
Arch. 111, Descriptive Geometry	2		2
Arch. 311, Architectural Design		(12)	4
Elective	6		6

SECOND SEMESTER

	Hours		Cr.
Arch. 212, History of Architecture	1	(2)	1⅔
Arch. 208, Drawing from Antique		(6)	2
Arch. 308, Water Color Painting		(3)	1
Arch. 112, Descriptive Geometry	1	(6)	3
Arch. 312, Architectural Design		(15)	5
Elective	4		4

SECOND YEAR

FIRST SEMESTER

	Hours		Cr.
Arch. 403, Life Class		(6)	2
Arch. 401, History of Painting	1		1
Arch. 407, Architectural Design		(21)	7
Elective	6		6

SECOND SEMESTER

	Hours		Cr.
Arch. 404, Clay Modeling		(6)	2
Arch. 406, Seminar	1		1
Arch. 408, Architectural Design		(21)	7
Arch. 414, History of Sculpture	1		1
Elective	4		4

Chemical, Civil, Electrical and Mechanical Engineering

FRESHMAN YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 101, College	3		3
Arch. 103, Freehand Drawing		(4)	1⅓
Math. 105, College Algebra	4		4
Chem. 101, Inorganic	3	(4)	4⅓
Arch. 111, Descriptive Geometry	2		2
Shop 101, Woodwork		(4)	1⅓
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
Eng. 102, College	3		3
Chem. 102, Inorganic	2	(4)	3⅓
Math. 108, Plane Trigonometry	3		3
M. E. 102, Engineering Drawing		(4)	1⅓
Arch. 116, Descriptive Geometry	1	(4)	2⅓
Pub. Spk. 101, Essentials of Public Speaking	2		2
Shop 104, Woodwork		(4)	1⅓
Physical Education		(3)	
Military Science		(3)	

Chemical Engineering

SOPHOMORE YEAR

FIRST SEMESTER

	Hours		Cr.
Math. 207, Analytics and Calculus	5		5
Physics 201, Engineering	4	(3)	5
Chem. 201, Qualitative Analysis	2	(6)	4
Modern Language	3		3
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
Math. 208, Calculus	5		5
Physics 202, Engineering	4	(3)	5
Chem. 210, Quantitative Analysis	2	(6)	4
Modern Language	3		3
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER

	Hours		Cr.
Chem. 311, Advanced Organic	3	(4)	4⅓
M. E. 305, Heat Power Engineering	4		4
Elective			8

SECOND SEMESTER

	Hours		Cr.
Chem. 312, Advanced Organic	3	(4)	4⅓
Bact. 310, General	2	(4)	3⅓
Elective	8		8

JUNIOR ELECTIVES

Chem. 327, Petroleum Technology	3	(6)	5
Chem. 321, Geology	2		2
M. E. 301, Materials of Machines	2		2
M. E. 307, Mechanical Laboratory		(3)	1
Modern Language	3		3
R. O. T. C.	2		2
Chem. 304, Advanced Quantitative	2	(6)	4
Chem. 322, Mineralogy	2		2
M. E. 306, Thermodynamics	3		3
M. E. 308, Mechanical Laboratory		(3)	1
Modern Language	3		3
R. O. T. C.	2		2

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Chem. 405, Industrial Chemistry	3	(9)	6
Chem. 423, Seminar	1		1
Elective	9		9

SECOND SEMESTER	Hours		Cr.
Chem. 406, Industrial Chemistry	3	(9)	6
Chem. 424, Seminar	1		1
Elective	9		9

SENIOR ELECTIVES

Chem. 411, Quantitative Analysis	1	(6)	3
E. E. 413, Direct Current Machines	3	(3)	4
M. E. 403, Gas Power Engineering	2		2
Modern Language	3		3
R. O. T. C.	2		2
Chem. 412, Quantitative Analysis	1	(6)	3
M. E. 420, Refrigeration	2		2
Econ. 406, Economics and Contracts	2		2
E. E. 414, Alternating Current Machines	3	(3)	4
Modern Language	3		3
R. O. T. C.	2		2

Civil Engineering

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Math. 207, Analytics and Calculus	5		5
Math. 205, Spherical Trigonometry	1		1
Physics 201, Engineering	4	(3)	5
Eng. 209, Technical Writing	2		2
Shop 203, Foundry		(4)	1⅓
C. E. 203, Surveying	1	(4)	2⅓
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Math. 208, Calculus	5		5
Physics 202, Engineering	4	(3)	5
C. E. 204, Railway Surveying	2	(6)	4
Shop 202, Forge		(4)	1⅓
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
C. E. 301, Applied Mechanics	3		3
C. E. 303, Roads and Pavements	2		2
C. E. 309, Higher Surveying	2	(4)	3⅓
C. E. 307, Topographical Drawing		(3)	1
M. E. 311, Steam and Gas Engines	2		2
Chem. 321, Geology	2		2
Elective	3		3

SECOND SEMESTER	Hours		Cr.
C. E. 302, Mechanics of Materials	3		3
C. E. 310, Framed Structures	2	(6)	4
C. E. 308, Testing Laboratory		(3)	1
C. E. 312, Hydraulics	2	(2)	2⅔
C. E. 314, Railway Engineering	2		2
Chem. 322, Mineralogy	1	(4)	2⅓
Elective	2		2

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
C. E. 401, Structural Design		(6)	2
C. E. 413, Water Supply	2		2
C. E. 403, Irrigation	2		2
C. E. 415, Reinforced Concrete	2		2
C. E. 407, Testing Laboratory		(3)	1
Econ. 201, Principles of Economics	3		3
Elective	3		3

SECOND SEMESTER	Hours		Cr.
C. E. 402, Concrete Structures		(6)	2
C. E. 404, Sewage and Drainage	2		2
Bact. 402, Sanitary Science	3		3
E. E. 412, Dynamo-Electric Machinery	2		2
Econ. 406, Laws of Contracts	2		2
Econ. 417, City Economics	2		2
Elective	3		3

Electrical Engineering

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Math. 207, Analytics and Calculus	5		5
Physics 201, Engineering	4	(3)	5
Eng. 209, Technical Writing	2		2
M. E. 201, Empirical Machine Design		(6)	2
C. E. 201, Elements of Surveying		(3)	1
Shop 203, Foundry		(4)	1⅓
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Math. 208, Calculus	5		5
Physics 202, Engineering	4	(3)	5
M. E. 204, Kinematics	2	(6)	4
Shop 202, Forge		(4)	1⅓
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER			
C. E. 301, Applied Mechanics	3		3
Physics 301, Electrical Measurements	2	(3)	3
E. E. 303, Direct Current Machines	2	(3)	3
M. E. 305, Heat Power Engineering	4		4
M. E. 307, Mechanical Laboratory		(3)	1
Shop 301, Machine Shop		(4)	1⅓
Elective	2		2

SECOND SEMESTER			
of Materials	3		3
C. E. 312, Hydraulics	2	(2)	2⅔
C. E. 302, Mechanics			
C. E. 308, Testing Laboratory		(3)	1
Physics 302, Electrical Measurements	1	(3)	2
E. E. 304, Direct Current Machines	3	(4)	4⅓
M. E. 308, Mechanical Laboratory		(3)	1
Shop 302, Machine Shop		(4)	1⅓
Elective	2		2

SENIOR YEAR

FIRST SEMESTER			
E. E. 401, Alternating Current Machines	4	(4)	5⅓
E. E. 403, Telephony	3	(3)	4
E. E. 405, Electrical Machine Design	2	(3)	3
Econ. 201, Principles of Economics	3		3
Engineering Electives or R. O. T. C.	2		2

SECOND SEMESTER			
E. E. 402, Alternating Current Machines	4	(6)	6
E. E. 404, Electrical Power Transmission	2		2
M. E. 412, Steam Power Plants	2	(3)	3
Econ. 406, Laws of Contracts	2		2
Engineering Electives or R. O. T. C.	2		2

Mechanical Engineering

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Math. 207, Analytics and Calculus	5		5
Physics 201, Engineering	4	(3)	5
Eng. 209, Technical Writing	2		2
M. E. 201, Empirical Machine Design		(6)	2
Shop 203, Foundry		(4)	1⅓
C. E. 201, Surveying		(3)	1
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Math. 208, Calculus	5		5
Physics 202, Engineering	4	(3)	5
M. E. 204, Kinematics	2	(6)	4
Shop 202, Forge		(4)	1⅓
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER			
C. E. 301, Applied Mechanics	3		3
M. E. 301, Materials of Machines	2		2
M. E. 303, Machine Design	3		3
M. E. 305, Heat Power Engineering	4		4
M. E. 307, Mechanical Laboratory		(3)	1
Shop 301, Machine Shop		(4)	1⅓
Elective	2		2

SECOND SEMESTER			
C. E. 302, Mechanics of Materials	3		3
C. E. 308, Testing Laboratory		(3)	1
C. E. 312, Hydraulics	2	(2)	2⅔
M. E. 304, Machine Drafting		(6)	2
M. E. 306, Thermodynamics	3		3
M. E. 308, Mechanical Laboratory		(3)	1
Shop 302, Machine Shop		(4)	1⅓
Elective	2		2

SENIOR YEAR

FIRST SEMESTER

	Hours		Cr.
M. E. 401, Steam Engine Design	2	(6)	4
M. E. 405, Mechanical Laboratory		(6)	2
E. E. 413, Direct Current Machinery	3	(3)	4
Econ. 201, Principles of Economics	3		3
Shop 401, Machine Shop		(4)	1⅓
Electives below	2		2

SECOND SEMESTER

	Hours		Cr.
M. E. 412, Steam Power Plant Design	2	(3)	3
M. E. 414, Works Management	3		3
E. E. Alternating Current Machinery	3	(3)	4
Econ. 406, Laws of Contracts	2		2
Electives below	4		4

SENIOR ELECTIVES

FIRST SEMESTER

	Hours	Cr.
M. E. 403, Gas Power Engineering	2	
M. E. 407, Compressed Air Machinery	2	
M. E. 421, Hydraulic Machinery	2	
R. O. T. C.	2	

SECOND SEMESTER

	Hours	Cr.
M. E. 410, Pumping Machinery	2	
M. E. 416, Thesis	4	
M. E. 418, Advanced Design	1 to 4	
M. E. 420, Refrigeration	2	
M. E. 424, Heating and Ventilation	2	
R. O. T. C.	2	

DEPARTMENT OF ARCHITECTURE

F. W. REDLICH, *Professor*
J. J. PATTERSON, *Instructor*

The courses offered by the department divide themselves into two groups. Both are full professional courses extending over four years. Course I is open to all students studying architecture; Course II for those studying architectural engineering.

Courses I and II

The schedules of Courses I and II conform to the standard minima of the Associated Collegiate Schools of Architecture.

It is the purpose of the department to offer the necessary training in design, construction and the allied subjects that will eventually fit the student for the practice of architecture, and will also enable him upon graduation to be of immediate value as a draftsman. With this end in view, the course of study combines with the strictly professional work the essentials of a liberal education, aiming to give the student as broad a foundation as possible for his future work. The number and scope of the subjects to be covered during the course make it necessary that the student start his architectural work at the beginning of the Freshman year.

The two courses in architecture and architectural engineering run very nearly parallel for the first two years in order to give the

student an opportunity for careful investigation before making a choice. At the beginning of the third year the line of demarcation between the professional work of the two options becomes more marked, and in the fourth year it is very sharply defined, but the general subject common to both options, which continues through the four years, emphasizes the close relationship between the two courses.

The work in design is started after the courses in descriptive geometry, shades and shadows and perspective, and the elements of architecture have given the student a good foundation. During the Sophomore year problems in design are taken, involving the use of the orders and other elements in order to train the student in sense of correct form and proportion.

In the Junior and Senior years, plan problems are given and the entire composition of buildings is studied. A series of lectures on the elements and theory of architecture accompanies this work, and frequent sketch problems are given in order to develop rapidity of thought and presentation.

Students in architecture devote 25% of the entire course to design; for those taking architectural engineering, design is decreased to 15%, but 34% of their course consists of engineering studies and advanced construction. Throughout all years of the course in architecture runs some form of freehand drawing, the basic nature of which cannot be overestimated. The history of architecture possesses a cultural as well as a technical value, for its prevailing styles reflect great movements of civilization among races—their migrations, conquests, commercial, social and religious changes. The study of history of architecture commences in the Sophomore year, and with the attendant subjects of ornament, painting and sculpture, continues through the balance of the course in architecture. Students in architectural engineering take less freehand drawing and history than those in architecture.

Of foreign languages, French is the most useful to the architect, and should, therefore, be preferably offered for entrance. The technical terms employed in architecture are largely French, and where the entrance requirement has been met by the offer of another language, it is desirable that the student take some French after matriculation.

During the summer vacation architectural students are ex-

pected to spend as large a part of their time as possible in the offices of practicing architects, and it has been found that those men who regularly follow this plan make the greatest advancement in college work.

The equipment of the architectural lecture room includes a Bausch & Lomb "Universal Balopticon" for the projection of slides and plates, and a carefully selected collection of lantern slides. The drawings, books and journals in the architectural library are freely accessible to students during working hours, but must not be removed from the departmental reading room without special permission, which, however, is readily given for cause. The drafting rooms are provided with "Economy" drawing tables of a type adopted as standard by the department; these have ample drawer capacity for students' work and tools; a top 39 by 72 inches in size for perspectives, and loose, inclined boards 32 by 44 inches for general use.

The studio for freehand drawing is well equipped with practical objects, still life models, simple plaster casts, casts of architectural features and sculpture.

In addition to the full four-year courses, a special course of two years' duration is also offered to qualify men who have had sufficient experience in the office of a practicing architect to enable them to carry on the required work. No entrance examinations for this work will be required. Upon the completion of the required work a certificate of proficiency is given.

Landscape Architecture

For the benefit of those desiring special training in this line of work, an elective course is offered, consisting of six hours a week of drafting. This is open to students of any department and will be adapted to their individual requirements.

SUBJECTS

103 Architecture. Drawing 4 hours. Credit 1⅓.
Freehand drawing from objects and simple casts in pencil.

104 Architecture. Drawing 4 hours. Credit 1⅓.
Freehand drawing from objects and simple casts in charcoal.

105 Elements of Architecture. Drafting 4 hours. Credit 1⅓.
The classic orders of architecture and elementary studies in composition, with drawings rendered in india ink.

106 Elements of Architecture. Drafting 6 hours. Credit 2.
Prerequisite: Arch. 105.
Continuation of the orders and elementary studies in composition.

111 Descriptive Geometry. Class 2 hours. Credit 2.
A course for students in architecture and engineering. Fundamental problems involving points, lines, planes, intersections, and development of surfaces, isometric and oblique projections.

112 Descriptive Geometry. Class 1 hour, drafting 6 hours. Credit 3.
For students of architecture.
Prerequisite: Arch. 111.
The fundamental problems are applied in the delineation of shades and shadows. Perspective drawing.

116 Descriptive Geometry. Class 1 hour, drafting 4 hours. Credit 2⅓.
For engineering students.
Prerequisite: Arch. 111.
A continuation and practical application of Architecture 111.

207 Drawing from the Antique. Drawing 4 hours. Credit 1⅓.
Work in pencil, pen and ink, and charcoal, from casts of architectural ornament, architectural fragments and parts of the figure.

208 Drawing from the Antique. Drawing 6 hours. Credit 2.
Prerequisite: Draw. 104.
Work in charcoal and pastel from casts of antique sculpture.

209 Architectural Design. Drafting 9 hours. Credit 3.
Prerequisite: Arch. 106.
A study of architectural composition with library research. Problems in design, composition, planning, motives, details and rendering. Lectures and criticisms.

210 Architectural Design. Draftinig 9 hours. Credit 3.
Prerequisite: Arch. 209.
Continuation of problems in design, composition and planning, with researches, lectures and criticisms.

211 Histor y of Architecture. Class 2 hours. Credit 2.
Prerequisite: General History.
Origin and development of historical styles of architecture from the earliest times up to the Gothic period. Typical examples are studied in detail, and for this purpose the lantern is in constant use. Stress is laid on the evolution of styles from changes in structural form, political and religious conditions, and national character.

212 History of Architecture. Class 2 hours. Credit 2.
Prerequisite: Arch. 211.
Continuation of the development of historical styles of architecture, including Gothic, Rennaissance and modern styles.

214 Building Construction. Class 2 hours. Credit 2.
Building materials and construction. Foundations, footings and walls; stone and brick masonry; concrete, terra cotta and plastering. Fire-resisting construction. Classwork supplemented by drawing and

inspection of structures. Carpentry work; properties and uses of various woods; methods of framing; mill construction; interior finish, hardware. Technical features of specifications and relation of architect, owner and contractor.

303 Applied Mechanics. Class 2 hours. Credit 2.

A course in kinematics, kinetics and statics for architectural students and others who have not had the calculus.

304 Strength of Materials. Class 2 hours. Credit 2.

Prerequisite: Arch. 303.

Continuation of the course in mechanics for students who have not taken the calculus. Graphical methods of determining the elastic curve of beams; centroids and moments of inertia of areas; beams and columns; properties and tests of building materials.

305 Plumbing and Drainage. Class 2 hours. Credit 2.

Plumbing systems and fixtures; water supply and filtration; sewage disposal and general sanitation.

307 Water Color Painting. Drawing 3 hours. Credit 1.

Prerequisite: Arch. 208.

Work from architectural casts and from still life. Outdoor sketching.

308 Water Color Painting. Drawing 3 hours. Credit 1.

Prerequisite: Arch. 307.

Given with special reference to conventional and sketch rendering of architectural subjects. Out-of-door sketches.

309 Working Drawings and Estimates. Class 1 hour, drafting 6 hours. Credit 3.

Prerequisite: Arch. 210.

Under such limitations as a client would be likely to impose, the student prepares working drawings, specifications, typical details and estimates for a residence of his own design.

310 Advanced Working Drawings. Drafting 6 hours. Credit 2.

Prerequisite: Arch. 309.

Continuation of 309. Working drawings of public buildings, office buildings, etc.

311 Architectural Design. Drafting 12 hours. Credit 4.

Prerequisite: Arch. 210.

Advanced problems in design, composition and planning, with research, lectures and criticisms.

312 Architectural Design. Drafting 15 hours. Credit 5.

Prerequisite: Arch. 311.

Continuation of advanced problems in design, composition and planning, with research, lectures and criticisms.

314 Drawing from the Antique. Drafting 6 hours. Credit 2.

Prerequisite: Arch. 208.

Work in water colors and oils from the casts of antique sculpture.

321 Water Color Rendering. Drafting 3 hours. Credit 1.

Prerequisite: Arch. 308.

322 **Pen and Ink Rendering.** Drafting 3 hours. Credit 1.
Preerquisite: Arch. 207.
Architectural sketching in pen and ink.

401 **History of Painting.** Class 1 hour. Credit 1.
Illustrated lectures on the history of painting, with special reference to architectural design.

403 **Life Class.** Drawing 6 hours. Credit 2.
Prerequisite: Arch. 308.
Figure sketching from the live model. Method of execution is entirely individual, whether in color or in black annd white.

404 **Clay Modeling.** Laboratory 6 hours. Credit 2.
Prerequisite: Arch. 207 and 302.
Work from architectural casts and from sketches.

406 **Seminar.** Class 1 hour. Credit 1.
Professional ethics and practice. Reports, lectures and discussions on selected topics.

407 **Architectural Design.** Drafting 21 hours. Credit 7.
Prerequisite: Arch. 312.
Extended problems in design, composition annd planning, with research and criticism.

408 **Architectural Design.** Drafting 21 hours. Credit 7.
Prerequisite: Arch. 407.
Continuation of Architecture 407. During the latter half of the semester a single major problem is studied and worked up in detail as a thesis problem.

410 **Interior Design and Decoration.** Drafting 9 hours. Credit 3.
Simple design problems for woodowrk, including mantels, bookcases, cabinets, doors and windows, staircases, halls, drawingrooms. Use of materials. Wall decorations in color.

414 **History of Sculpture.** Class 1 hour. Credit 1.
Illustrated lectures on the history of sculpture with special reference to architectural design.

417 **Landscape Architecture.** Drafting 6 hours. Credit 2.
This course is elective to students of all departments, and can be arranged to suit their special needs.

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DEPARTMENT OF CHEMICAL ENGINEERING

HILTON IRA JONES, *Professor*
ARTHUR G. WILLIAMS, *Assistant Professor*

This course in chemical engineering has been arranged to meet the needs of an increasing number of students who wish to prepare themselves for engineering work that depends wholly or in part on chemical or metallurgical processes. The purpose of the course is to provide the young engineer with a broad, well

founded knowledge of both chemistry and mechanical engineering so that he may be prepared to take up the work of assisting in the design and erection of machinery used in such manufacturing plants as those indicated. But it is the aim of the work also to develop in him the ability to see the bearing of a proposition from the combined viewpoint of the chemist and the engineer, which is essential if one is to appreciate the fact that commercial success in manufacturing depends on the application of scientific principles.

In addition to a knowledge of the principles on which the design, construction and maintenance of a manufacturing plant rests, there must be control of the raw material used and the products turned out. No efficient control can be had except through chemical analyses; on this account the study of analytical chemistry is specially emphasized. The courses in chemistry and in mechanical engineering are so arranged that the work of the first two years is fundamental in character and furnishes a suitable foundation for one who would become either a chemist or an engineer; while that of the last two years, though it requires all the essential work for either, allows the student some choice of subjects, depending on the interests he has developed up to that time.

The equipment of both the chemical laboratory and the Department of Mechanical Engineering, described elsewhere in this catalog, is available for the work of this course.

Regular work is supplemented from time to time by the analyses of oil and similar products sent in from different parts of Oklahoma and elsewhere.

For the outline of the course see "Courses in the School of Engineering".

For a description of the courses in chemistry, see the Department of Chemistry.

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DEPARTMENT OF CIVIL ENGINEERING

Alfred Boyd, *Professor*
E. R. Olbrich, *Assistant Professor*

The work of the civil engineer includes highway and railroad location and construction, municipal improvement, hydraulic, sanitary and structural engineering. The purpose of the instruc-

tion in this department is to give a training sufficiently broad and comprehensive to fit a student to enter any line of civil engineering practice.

Highway construction is of increased importance, and this fact is recognized by the emphasis placed upon that part of the training which prepares men for this work.

The problems of water supply and sewage disposal are being brought to the attention of almost every community in Oklahoma. The training of city managers who have to deal with these and other municipal problems is identical with that of a well equipped civil engineer.

This department is well supplied with the instruments needed for a thorough course in surveying, including surveys for highways, railroads, drainage and irrigation projects, and geodetic work.

In the course in bridge and structural design, careful study is made of the theory of stresses, and practice given in the actual designing of wood, steel and concrete structures.

The testing laboratory contains all of the machines usually found in a well equipped laboratory for the testing of structural materials. Opportunity is offered for laboratory study of cement and concrete. The machines for the testing of road materials conform to the standards of the United States Office of Public Roads.

Class instruction in hydraulics is supplemented by work in the hydraulic laboratory. Measurements of flow are made for weirs, nozzles, pipes and flumes. Tests of a Pelton wheel, of a centrifugal pump, and of water meters and field measurements by means of a current meter are also made. A thorough training in hydraulics is necessary to deal with problems in water supply, irrigation, and hydraulic development.

In addition to the work in mathematics, physics and chemistry required of all engineering students, certain courses adapted to the needs of civil engineers are required. Spherical trigonometry is given in the Sophomore year, and an opportunity to elect least squares in the Junior and Senior years. Geology and mineralogy are required subjects. They have a direct bearing upon the study of road and building materials. A course in sanitary biology is offered by the Department of Bacteriology and is of special im-

portance for a clear understanding of sewage disposal and water supply. A course in steam and gas engineering and one in dynamo- electric machinery, given by other departments, are especially adapted to the needs of civil engineering students.

The drafting room for this department is well equipped and well lighted. There is a good collection of working drawings and designs, representing standard practice in different fields of engineering, which are used for reference in several of the courses.

SUBJECTS

201 Elements of Surveying. Fieldwork 3 hours. Credit 1.

Care, use and adjustment of the transit and level. Traversing, leveling, making of profiles, keeping of field notes. A course adapted to the needs of those who require an elementary knowledge of surveying, but do not expect to complete a course in civil engineering.

203 Surveying. Class 1 hour, fieldwork 4 hours. Credit 2⅓.

Prerequisite: Math. 108.

Care, use and adjustment of compass, transit, level and plane table. Leveling, traversing, topographical measurements and mapping.

204 Railway Surveying. Class 2 hours, fieldwork 6 hours. Credit 4.

Prerequisite: Math. 108.

Exercises in simple, reverse and transition curves; preliminary and location surveys for a short-line railroad; cross-sections and estimates.

Text: Railroad Curves and Earthwork, Allen.

301 Applied Mechanics. Class 3 hours. Credit 3.

Prerequisite: Math. 208.

Principles of statics; theory of structures; dynamics.

Text: Applied Mechanics, Poorman.

302 Mechanics of Materials. Class 3 hours. Credit 3.

Prerequisite: C. E. 301.

Properties of materials; flexure; beams, columns, shafts.

Text: Strength of Materials, Boyd.

303 Roads and Pavements. Class 2 hours. Credit 2.

Methods of construction and maintenance of various types of roads and pavements. Road machinery and road organization.

307 Topographical Drawing. Drawing 3 hours. Credit 1.

Prerequisite: C. E. 203.

Conventional symbols, lettering, perparation of profiles and maps.

308 Testing Laboratory. Laboratory 3 hours. Credit 1.

Prerequisite: C. E. 301.

Testing of sand, cement, concrete, road materials.

309 Higher Surveying. Class 2 hours, fieldwork 4 hours. Credit 3⅓.

Prerquisite: Math. 205 and C. E. 203.

Determination of azimuth, latitude, longitude and time. Fieldwork in base line measurement, and triangulation.

310 Framed Structures. Class 2 hours, drawing 6 hours. Credit 4.
Prerequisite: C. E. 301.
Stresses in simple structures; graphical analysis; elements of design.

312 Hydraulics. Class 2 hours, laboratory 2 hours. Credit 2⅔.
Prerequisite: Math. 208.
Fundamental principles and their application; laboratory determination of coecients.
Text: "Textbook of Hydraulics", Russell.

314 Railway Engineering. Class 2 hours. Credit 2.
Methods of construction and maintenance of roadbed and structures; surveys and estimates; organization; signaling; economic theory as applied to location and operation.

401 Structural Design. Drawing 6 hours. Credit 2.
Prerequisite: C. E. 310.
Design of structures of wood and steel, and of reinforced concrete as applied to buildings.

402 Concrete Structures. Drawing 6 hours. Credit 2.
Prerequisite: C. E. 302.
Designing of retaining walls, dams and reinforced concrete arches.

403 Irrigation. Class 2 hours. Credit 2.
Prerequisite: C. E. 312.
Capacity of canals; surveys; sources of supply; design of structures; methods of applying water; irrigation law.

404 Sewerage and Drainage. Class 2 hours. Credit 2.
Prerequisite: C. E. 312.
Design and construction of sewerage systems; modern methods of sewage disposal; methods of drainage.

407 Testing Laboratory. Laboratory 3 hours. Credit 1.
Prerequisite: C. E. 302.
Laboratory examinations of the various materials of construction.

408 Thesis. Laboratory 6 hours. Credit 2.
Original investigation of some engineering subject.

411 Steel Construction. Class 2 hours. Credit 2.
Prerequisite: C. E. 301.
Steel frame construction of buildings and its application to modern fireproof work.
Text: "Steel Contruction", Burt.

413 Water Supply. Class 2 hours. Credit 2.
Prerequisite: C. E. 312.
Sources of supply. Design, construction and maintenance of waterworks systems. Methods of purification.
Text: "Water Supply Engineering", Folwell.

415 Reinforced Concrete. Class 2 hours. Credit 2.
Prerequisite: C. E. 301.
Theory and practice in the design of reinforced concrete.
Text: "Reinforced Concrete Construction", Hool.

416 Irrigation and Drainage. Class 2 hours, laboratory 3 hours. Credit 3.

A practical course, dealing with the location and construction of drainage and irrigation ditches, the distribution of water, subsurface and spray systems. The cause and prevention of alkali. Pumping and storage.

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DEPARTMENT OF ELECTRICAL ENGINEERING

WILLIAM CARL LANE, *Professor*

The course in electrical engineering is designed to give the student a thorough training in the fundamental principles of electricity and in their application to the problems of the engineer. The successful electrical engineer must have a broad general engineering training in addition to his training in electricity; hence, the student is required to take a number of subjects in the other departments of the School of Engineering. These include applied mechanics, heat power engineering, hydraulics, strength of materials and several other of the allied engineeing branches.

The first two years of the course are devoted to the fundamental subjects. During this period the student receives a careful training in English, mathematics, chemistry, physics, drawing, surveying and shop practice.

The electrical engineering work proper begins in the Junior year. The principles of electrical engineering, direct current machinery, wiring and illumination are studied in detail. All courses include laboratory work of a practical nature. The Senior year's work includes a detailed study of alternating current machinery, electric power plants, electric power transmission and telephony. Laboratory practice in alternating currents includes testing of generators, motors, synchronous converters, transformers, rectifiers and meters. Care is taken to coordinate all work of the classroom with the work of the laboratory.

The dynamo laboratory, located on the first floor of the Engineering Building, is equipped with modern direct and alternating current generators and motors, synchronous converters, trans, formers, rectifiers, arc lamps, starting devices and switchboards. An ample supply of voltmeters, ammeters, wattmeters, techometers and other necessary measuring instruments is provided. The laboratory equipment is representative of modern practice. No machines are wired up permanently. The students of each class

are required to wire up the machines and adjust them for best operation before performing an experiment. At the close of a test all wires are disconnected.

The battery room and the calibrating laboratory are adjacent to the dynamo laboratory. The former contains a 90-cell storage battery for supplying energy for calibratiing purposes, a battery for operating the College bell system, and other experimental batteris. The latter is equipped with a Leeds-Northrup potentiometer and standard shunts, a standard Weston voltmeter, a Weston indicating wattmeter and the other necessary auxiliary apparatus for calibrating both laboratory and commercial instruments.

Modern telephone apparatus is provided for use in connection with the course in telephony. A darkroom is equipped with a Leeds-Northrup photometer of the latest type, and is devoted exclusively to photometric work.

SUBJECTS

303 Direct Current Machines. Class 2 hours, laboratory 3 hours. Credit 3.

Prerequisite: Physics 202; Math. 208.

A study of direct current machinery.

Text: "Elements of Electrical Engineering", Franklin and Esty (Vol. I).

304 Direct Current Machines. Class 3 hours, laboratory 4 hours. Credit 4⅓.

Prerequisite: E. E. 303.

A continuation of E. E. 303.

Text: "Elements of Electrical Engineering", Franklin and Esty (Vol I).

401 Alternating Current Machines. Class 4 hours, laboratory 4 hours. Credit 5⅓.

Prerequisite: Math. 208; E. E. 302, 304.

A study of tthe fundamentals of alternating currents and their application to alternators, transmission lines, synchronous motors and conversion apparatus.

Text: "Principles of Electrical Engineering", Franklin and Esty (Vol II).

402 Alternating Current Machines. Class 4 hours, laboratory 6 hours. Credit 6.

Prerequsite: E. E. 401.

A continuation of E. E. 401. A study of transformers and alternating current motors.

Text: "Principles of Electrical Engineering", Franklin and Esty (Vol. II).

403 Telephony. Class 3 hours, laboratory 3 hours. Credit 4.
Prerequisite: E. E. 301, 302.
Theory and practice in telephony.
Text: "American Telephone Practice", Kempster B. Miller.

404 Electric Power Transmission. Class 2 hours. Credit 2.
Prerequisite: E. E. 401, 407.
Includes generation, transmission, distribution and utilization of power by electrical process.
Text: "Elements of Electrical Transmission", Ferguson.

405 Electrical Machine Design. Class 2 hours, designing and drafting 3 hours. Credit 3.
Prerequisite: E. E. 304.
Theory and design of a dynamo.
Text: "Electrical Machine Design", Gray.

410 Electric Railways. Class 2 hours. Credit 2.
Prerequisite: E. E. 401 or 413.
Elective.
A study of electric railway apparatus and of the best practice.
Text: "The Electric Railway", Buck.

411 Wiring and Illumination. Class 2 hours. Credit 2.
Prerequisite: Physics 202.
Theory and practice in the design of the lighting and wiring of buildings, and of the wiring of electrical apparatus in general.

412 Dynamo-Electric Machinery. Class 2 hours. Credit 2.
Prerequisite: Physics 202 and Math. 208.
A brief course in direct and alternating current machinery.

413 Direct Current Machinery. Class 3 hours, laboratory 3 hours. Credit 4.
Prerequisite: Physics 202; Math. 208.
A study of direct current machinery.
Text: "Essentials of Electrical Engineering", Wilson.

414 Alternating Current Machinery. Class 3 hours, laboratory 3 hours. Credit 4.
Prerequisite: E. E. 413.
A continuation of E. E. 413.
Text: Same as E. E. 413.

DEPARTMENT OF MECHANICAL ENGINEERING

CHARLES JABLOW, *Professor*
C. G. MARTINSON, *Assistant Professor*

The field of the mechanical engineer includes the design and construction of tools and machinery; the solution of problems of power generation, including those presented by the advent of the steam turbine and the gas engine; power transmission by mechanical means; and all questions involving refrigeration, heating and ventilation, gas manufacture and the mechanical equipment

of railroads. He is concerned with the design of farm motors and of agricultural machinery; with hydraulic machinery for the water supply of cities; with operations involved in mining and ore preparation; and with the design and equipment of steamships. To him is entrusted the problems concerning pumps, compressors and mechanical conveyors. More broadly still, he has now come to be a conspicuous factor in our industrial development as an organizer, systematizer and cost reducer. It is a matter of record that for three years after graduation most technical men are engaged as draftsmen and subordinates; that for the next five years most are classed as superintendents, engineers-in-fact, and minor executives, and that after eight years the larger proportion of mechanical engineering graduates are firm members, managers, and executive officials. Of the membership of the American Society of Mechanical Engineers, for example, 50% are manufacturers or chief officials; 16½% are engaged in professional practice as consulting specialists; while only 4% are actually concerned with detail of mechanical design. The great work of the mechanical engineer is economical production. His success must be based on scientific training, but it must also depend upon the study of current methods. The aim of the course in mechanical engineering is to afford both of the above kinds of training. The student is therefore given a thorough training in the fundamental engineering principles while at the same time he is made conversant with the principles of contemporary engineering practice.

The student must also acquire at least the fundamentals of that broad cultural training which is recognized as indispensable to the success of men who must meet other men of varied experience and work with them in a professional capacity. This latter training is given, not by the addition of uncorrelated subjects, but, in the main, by directing the attention of the student to his responsibility as a citizen and in showing the application and relation of such subjects as economics, ethics, psychology and sociology to his professional subjects.

There is a certain amount of overlapping of all the engineering courses. The student therefore acquires a broad knowledge of the different branches of engineering. The work of the Freshman year is alike for the M. E., E. E., Ch. E. and C. E. courses.

The Sophomore work is alike for the M. E. and E. E. courses. Beginning with the Junior year the differentiation between these courses increases.

The steam, gas power, hydraulic and fuel and lubricant testing laboratories are all equipped with apparatus necessary for carrying on complete experiments. The wood shop, forge shop, machine shop and the foundry are likewise completely equipped with tools and machinery necessary to do work along lines obtaining in practice.

SUBJECTS

102 Engineering Drawing. Drafting 4 hours. Credit 1⅓.

Required of Freshmen in M. E., E. E., Ch. E. and C. E., second semester.

Lettering and drawing of machine parts from copy; drawing to scale.

Text: "Engineering Drawing", French.

104 Mechanical Drawing. Drafting 4 hours. Credit 1⅓.

Required of Freshmen in School of Commerce and Marketing, second semester.

Use of instruments, lettering, chart drawing and making of graphs.

201 Empirical Machine Design. Drafting 6 hours. Credit 2.

Prerequisite: M. E. 102.

Required of Sophomores in M. E. and E. E., first semester.

Machine drawing and proportioning of machine parts from the standpoint of good usage and general appearance rather than from the analysis of stresses.

Text: "Engineering Drawing", French.

204 Kinematics. Class 2 hours, drafting 6 hours. Credit 4.

Prereqnisite: M. E. 201; Math. 108.

Required of Sophomores in M. E. and E. E., second semester.

Theory of mechanism and application to instant-centers, cams, gears, linkages, belting, ballbearings, velocity and acceleration diagrams, etc.

Text: "Elements of Mechanism", Schwamb and Merrill.

301 Materials of Machines. Class 2 hours. Credit 2.

Prerequisite: Shop 202, 203; Physics 201; Chem. 102.

Required of Juniors in M. E., first semester.

The manufacture and properties of iron and steel as applied to machine construction; heat treatment of steels; metallography; alloy steels; properties of copper alloys and bearing metals.

Text: "Metallurgy of Iron and Steel", Stoughton.

303 Machine Design. Class 3 hours. Credit 2.

Prerequisite: M. E. 201, 204. Concurrent with M. E. 301.

Required of Juniors in E. E., first semester.

Design of machine parts by analysis of stresses applied and selection of proper factors of safety. Applications of the laws of mechan-

ics and kinematics to the design of machines, and a consideration of modifications due to practical conditions.

Text: "Machine Design", Kimball and Barr.

304 Machine Drafting. Drafting 6 hours. Credit 2.

Prerequisite: M. E. 303.

Required of Juniors in M. E., second semester.

Drafting room applications of the work given in M. E. 303. Design and working drawings of complete machines. A short time is devoted to the subject of jigs and fixture design.

Text: "Machine Design", Kimball and Barr; "Mechanism", Schwamb and Merrill.

Reference Book: Mark's "Mechanical Engineer's Handbook".

305 Heat Power Engineering. Class 4 hours. Credit 4.

Prerequisite: Physics 202. Concurrent with M. E. 307.

Required of Juniors in M. E. and E. E., first semester.

A functional course covering the construction and operation of steam and gas power apparatus, including reciprocating and turbine steam engines, internal combustion engines, gas producers, boilers and power plant auxiliaries.

Text: "Heat Power Engineering", Hirshfield and Barnard; "Steam Tables", Marks and Davis.

306 Thermodynamics. Class 3 hours. Credit 3.

Prerequisite: M. E. 305; Math. 208.

Required of Juniors in M. E., second semester.

The laws and properties of gases and vapors as applied to steam engines, gas engines, steam turbines, compressors and refrigerating machinery.

Text: "Heat Power Engineering", Hirshfield and Barnard.

307 Mechanical Laboratory. Laboratory 3 hours. Credit 1.

Concurrent with M. E. 305.

Required of Juniors in M. E. and E. E., first semester.

Calibration of indicator springs, steam gages, thermometers, dynamometers and planimeters; of steam and fuel calorimeters; of venturi, disk and piston type meters. Proximate analysis of coals. Flash and burning tests of oils. Test of lubricants and fuel oils. Tests of injectors and separators. Valve-setting with use of indicator. Simple engine and boiler tests.

Text: "Power Plant Testing", Moyer.

308 Mechanical Laboratory. Laboratory 3 hours. Credit 1.

Prerequisite: M. E. 307.

Required of Juniors in E. E. and M. E., second semester.

Tests of pumps, air compressors, blowers, steam turbines, and gas, gasoline and oil engines.

Text: "Power Plant Testing", Moyer.

311 Steam and Gas Engineering. Class 2 hours. Credit 2.

Prerequisite: Physics 202.

Required of Juniors in C. E. and A. E., first semester.

The construction and selection of power plant machinery, including the different types of engines, boilers, pumps, compressors, refrigerating machines and power plant auxiliaries.

Text: "Heat Engines", Allen and Bursley.

401 Steam Engine Design. Class 2 hours, drafting 6 hours. Credit 4.
Prerequisite: M. E. 304, 306.
Required of Seniors in M. E., first semester.
A study of the various types of reciprocating steam engines. Theoretical and practical considerations entering into the design of valve gears and engine details. Governor design. Balancing and the determination of flywheel weights. Compound engines. Graphical as well as mathematical methods of design are employed. The principal parts of a highspeed, automatic cutoff engine or of a Corliss engine are laid off on the drafting board.
Reference Book: Mark's "Mechanical Engineer's Handbook".

403 Gas Power Engineering. Class 2 hours. Credit 2.
Prerequisite: M. E. 306.
Elective for Seniors in M. E., first semester.
A study of modern internal combustion engines (gas, gasoline, oil and alcohol, and of the production of gas for motive power (natural, illuminating, producer, blast furnace and coke oven gas). Gas producers and gas cleaning. Theory and method of internal combustion engine design.
Text: "Modern Gas Engine and Gas Producer", Levin.

405 Mechanical Laboratory. Laboratory 6 hours. Credit 2.
Prerequisite: M. E. 307.
Required of Seniors in M. E., first semester.
Tests of pumps, air compressors, blowers, steam turbines, refrigerating machines, and gas, gasoline and oil engines. Special engine and boiler tests; Hirns' analysis and various over-all tests of power plants.
Text: "Power Plant Testing", Moyer.

407 Compressed Air Machinery. Class 2 hours. Credit 2.
Prerequisite: M. E. 303, 305.
Elective for Seniors in M. E., first semester.
A study of the physical properties of air and of the characteristics of the different types of air compressors with a view to intelligent selection of the proper type and size for a given set of conditions. Single and multi-stage compression. Hydraulic compression of air. Measurements and transmission of compressed air.
Text: "Air Compression and Transmission", Thorkelson.

410 Pumping Machinery. Class 2 hours. Credit 2.
Prerequisite: M. E. 303, 305.
Elective for Seniors in M. E., first semester.
History and development of pumping machinery; force and lift pumps; reciprocating and centrifugal pumps; hydraulic presses and hydraulic pressure lines. Theory and method of design of pumps; study of the characteristics of the various types with a view to intelligent selection of the proper type and size for a given set of conditions.
Text: "Pumping Machinery", Greene.

412 Steam Power Plants. Class 2 hours, drafting 3 hours. Credit 3.
Prerequisite: M. E. 305.
Required of Seniors in M. E. and E. E., second semester.
A plant is designed on the drawing board after a careful study has been made of the different types of power plant apparatus; selection of units is then made to fulfill certain given conditions.
Text: "Mechanical Equipment of Buildings", Harding and Willard.

414 Works Management. Class 3 hours. Credit 3.

Prerequisite: Shop 302.
Required of Seniors in M. E., second semester.
This course covers the consideration of the entire work, including shops, department and office as follows: Factory location and arrangement, organization and administration, duties of line and staff, cost of production and methods of modern manufacture for the attainment of accuracy and of high speed, time study, motion study, standardization, etc. Employment of labor, labor problems and wage systems. Industrial betterment.

416 Thesis. Classwork or laboratory as assigned. Credit 4.

Prerequisite: All preceding subjects.
Elective for Seniors in M. E., second semester.
The student is assigned a problem requiring some individual research, investigation or design on his part for the purpose of demonstrating ability or aptitude for independent work.

418 Advanced Machine Design. Drafting 3 to 12 hours. Credit 1 to 4.

Prerequisite: M. E. 304-305.
Elective for Seniors in M. E., second semester.
The work of design will come under some of the following subdivisions: Machine Tools, including fixtures and attachments; Boilers including a study of the different types of boilers, furnaces, automatic stokers and of smoke abatement; Internal Combustion Engines, a more intensive study than is given in M. E. 305; Gas Power Machinery, including gas producers, scrubbers, tar separators, washers, holders, etc.; Special Machinery.

420 Refrigeration. Class 2 hours. Credit 2.

Prerequisite: M. E. 306.
Elective for Seniors in M. E. and E. E., second semester.
A study of the theory and principles of construction and operation of the different types of apparatus used and of the different systems employed in refrigeration. This course includes icemaking, cold storage, and the further adaptation of refrigeration to the arts.
Text: "Mechanical Refrigeration", Macintire.

421 Hydraulic Machinery. Class 2 hours. Credit 2.

Prerequisite: C. E. 312.
Elective for Seniors in M. E. and E. E., second semester.
Theory, design, construction and installation of water wheels, pressure engines, and of modern hydraulic turbines, and a study of their characteristics with a view to intelligent selection of the proper type and size for any given set of conditions. Water power development.
Text: Hydraulic Turbines, Daugherty.

424 Heating and Ventilation. Class 2 hours. Credit 2.

Prerequisite: M. E. 305 or M. E. 311, second semester.
Elective for Seniors in M. E.
Required of Juniors in A. E. and Arch.
Theory and design of the various systems for the heating and ventilation of buildings; hot air, hot water, steam, and the plenum and vaccuum systems. Central station or direct heating.

DEPARTMENT OF SHOP PRACTICE

DEWITT HUNT, *Superintendent of Shops*
F. R. BRADLEY, *Assistant*
E. D. SODERSTROM, *Assistant*
L. K. COVELLE, *Assistant*
F. R. CROSBY, *Assistant*
L. E. CALAME, *Assistant*

The work in the shops is intended to serve (1) Students of engineering who require training in the methods of modern shop processes, and the principles underlying efficient production; (2) students of other divisions of the College who need a less extensive training in shop work; (3) those who expect to become teachers of manual training and of vocational subjects; (4) students, not of collegiate grade, who are seeking intensive training along some vocational line.

The most remarkable achievement in shop practice in the last decade has been the reduction of each tool process to its simplest and most usable form. All of the courses in shop practice are organized for the purpose of presenting the recognized elemental tool processes, and are intended to cover nearly all the general processes in each division. Lectures are given each week in every course outlining some important phase of the work to be covered.

SUBJECTS

Shop 101 Woodwork. Shop practice 4 hours. Credit 1⅓.

Required of Freshmen in M. E., E. E., Ch. E. and C. E., first semester.

The student in this course is required to make a graded set of exercises in woodwork and receives practice in the use and care of hand tools. One-half time is given to wood turning, and during the letter part of the semester patternmaking is taken up.

Shop 104 Woodwork. Shop practice 4 hours. Credit 1⅓.

Prerequisite: Shop 101.

Required of Freshmen in Ch. E., C. E., E. E. and M. E. courses.

The student is required to make a graded set of wood patterns. As far as possible all exercises are selected from designs of machines to be built in the shops. The course also includes core box construction. Lectures are given on pattern shop equipment and on special woodworking machinery.

The text used is "Wood Patternmaking", Purfield.

Shop 111 Benchwork. Shop practice 4 hours. Credit 1⅓.

Prerequisite: Woodwork 11 and 12, or their equivalent.

This course covers the use of hand tools, the making of exercises involving planing, screw construction, curve forming, the dado joint and its various applications in half-lap construction, and includes elementary wood finishing.

Text: "Essentials of Woodworking", Griffith.

Shop 108 Carpentry. Shop practice 3 hours. Credit 1.

Required of Freshman students in agriculture.

A course in toolwork suitable for farm use, embracing sawing and planing to dimensions, fastening with nails and screws; the elements of framing and the cutting of rafters.

Shop 112 Cabinetmaking. Shop practice 4 hours. Credit 1⅓.

Prerequisite: Shop 101.

The application of the use of woodworking machines is made in the compeltion of a class project involving mortise and tenon joints and paneling.

Text: "Woodwork for Secondary Schools", Griffith.

Shop 113 Mechanical Drawing. Drawing 4 hours. Credit 1⅓.

Prerequisite: Mech. Draw. 11 and 12.

This work is arranged for those who expect to teach. A series of problems arranged suitably in pedagogical sequence is given. The making of working drawings, tracing and blueprints, machine details and assembled drawings make up the subject matter of this course.

Text: "Applied Mechanical Drawing", Matthewson and Stewart.

Shop 114 Mechanical Drawing. Drawing 4 hours. Credit 1⅓.

For teachers of trades and industries.

Prerequisite: Shop 113.

A study of orthographic projections, development of surfaces, intersections, isometric projections, and a brief study of house planning. This course is planned to give the high school manual training teacher a general view of the field of mechanical drawing.

Text: "Applied Mechanical Drawing", Matthewson and Stewart.

Shop 202 Forge. Shop practice 4 hours. Credit 1⅓.

Required of Sophomores in M. E., E. E. and C. E., second semester.

The student is required to make a graded set of forgings and the various types of welds. Tool-dressing, hardening and tempering, casehardening, and the heat treatment of carbon and high-speed tool steels is performed by the student. Lectures are given on the study of wrought metals and on heat treatment.

Text: "Forge Practice", Bacon.

Shop 203 Foundry. Shop practice 4 hours. Credit 1⅓.

Required of Sophomores in M. E. E. E. and C. E,, first semester.

The student is required to make a graded set of molds of patterns which, for the most part, are to be used on machines or apparatus that is to be built in the shops. Preparation and charging the cupola, pouring off heats and mixing and baking cores. Lectures are given on modern foundry practice.

Text: "Elementary Foundry Practice", Richards.

Shop 205 Agricultural Forging. Shop practice 3 hours. Credit 1.

Required of Sophomore students in agriculture.

The work in this course covers the shaping and welding of steel, the forging of farm machinery parts, drilling metals and other problems in forging adaptable to farm needs.

Shop 206 Art Forging. Shop practice 4 hours. Credit 1⅓.

Prerequisite: Forging 201.

An advanced course in forging, adapting the work to the needs

of a high school forge shop where a large proportion of interest in the work is necessary.

Text: "Art Forging", Googerty.

Shop 207 Advanced Wood Turning. Shop practice 4 hours. Credit 1⅓.

Prerequisite: For credit, Woodwork 21.

Practice in fancy turning, involving gluing up stocks for spindle turning, faceplate turning of cups, trays, covered boxes, table legs, spiral turning and mandrel work.

Shop 301 Machine Shop. Shop practice 4 hours. Credit 1⅓.

Required of Juniors in M. E. and E. E., first semester.

Shop 303 Machine Shop. Shop practice 4 hours. Credit 1⅓.

Prerequisite: Shop 301.

Required of Juniors in M. E. and E. E., second semester.

Shop 304 Design. Class 2 hours. Credit ⅔.

Prerequisite: Mech. Draw. 11 and 12.

This is primarily a course in drawing in which the student designs pieces that may be made in the shop. The designing is done from a standpoint of adapting the model to shop classes. A tracing is kept of each piece designed and an exchange of shop drawings thus established. Students may make blueprints from any of these tracings and thus go out with a well established, graded set of models.

Shop 305 Care of Shop Equipment. Lecture and shop practice 2 hours. Credit ⅔.

Lectures and practice involved in the care of shop tools, sawfiling, sharpening of edge tools, care of machines and installation of shop equipment will be given in this course.

Shop 306 Methods of Organization in Shop Teaching. Lecture 2 hours, practice 2 hours. Credit 2⅔.

Lectures on methods of teaching and organization of the subject matter are given each week, and students are required to assist in shop classes two hours each week for practice teaching.

Shop 401 Machine Shop. Shop practice 4 hours. Credit 1⅓.

Prerequisite: Shop 302.

Required of Seniors in M. E., first semester.

The student in these courses is required to make a graded set of machine parts. As far as possible all exercises are selected from designs of machines that are to be built in the shops. Lectures are given on the art of cutting metals.

Text: Machine Shop Practice, Kaup.

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TRAINING COURSE FOR TEACHERS OF TRADES AND INDUSTRIES

The course for the training of teachers of trades and industries in the A. and M. College is two years in length and leads to a special certificate authorized by the State Board of Education.

Students applying for admission to this course must have 15

high school units to obtain the certificate, though men of trade experience and maturity are admitted as special students and are given recommendations of merit. The demand for teachers of vocations in the State of Oklahoma is so closely related to the training of teachers of manual training that all teachers of manual training are urged to enroll in one of the regular vocational courses. These courses are for students of less than College grade, but give a good opportunity to men to obtain a trade connection and at the same time apply the principles of teaching obtained in College lecture rooms. Where a man desiring to become a teacher already has trade experience, he is not required to spend so much time as student instructor in these vocational classes, but is required to spend a minimum of two hours each week in practice teaching in these classes. The practice teaching required is at all times under the direct supervision of a teacher skilled in the trade being taught. Most of the candidates for training for trade teachers are graduates from the Secondary School and have had the required trade training in the vocational classes before entering the College.

The outline of the two-year course given below is modeled after the suggested work in the "Vocational Education Plans" of the State of Oklahoma, and meets the requirements of the State Board of Education for the certificate for special teachers.

In order to obtain the certificate for teaching vocational trade courses, the student will be required to spend ten weeks in each of the two trades during summer vacations. Related trades should be chosen; that is, carpentry and planing mill work, auto mechanics and machineshop work, etc. Certificates will not be issued until this trade experience is obtained.

The outline of the two-year course offered in teacher training work follows:

FIRST YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 101	3		3
Physics 105	3	(2)	3⅔
Edu. 101, Psychology	2		2
Shop Math. 21, Arithmetic	3		3
Shop 111, Benchwork		(4)	1⅓
Shop 113, Mechanical Drawing		(4)	1⅓
Shop 101, Patternmaking		(4)	1⅓
Physical Education		(3)	1
Military		(3)	1

SECOND SEMESTER	Hours		Cr.
Eng. 102	3		3
Physics 106	3	(2)	3⅔
Edu. 102, Principles	2		2
Shop Math. 22, Arithmetic	3		3
Shop 112, Cabinetmaking		(4)	1⅓
Shop 202, Forging		(4)	1⅓
Shop 114, Mechanical Drawing		(4)	1⅓
Physical Education		(3)	1
Military		(3)	1

SECOND YEAR

FIRST SEMESTER

	Hours	Cr.
Eng. 207	3	3
Chem. 101	3 (4)	4⅓
Edu. 435, Vocational Education	2	2
Shop 305, Care of Shop Equipment	(2)	⅔
Shop 207, Advanced Turning	(4)	1⅓
M. E. 201, Mechanical Drawing	(..)	2
Shop 301, Machine Shop	(4)	1⅓
Shop 203, Foundry	(4)	1⅓
Physical Education	(3)	1
Military	(3)	1

SECOND SEMESTER

	Hours	Cr.
Eng. 208	3	3
Chem. 102	2 (4)	3⅓
Edu. 432, Vocational Psychology	2	2
Shop 304, Design	2	⅔
Shop 306, Organization	2	2
Shop 302, Machine Shop	(4)	1⅓
Shop 108, Carpentry or Shop 206, Art Forging	(4)	1⅓
Physical Education	(3)	1
Military	(3)	1

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TRADES COURSES

These two-year courses are given, as nearly as possible, on a production basis and fit men for actual work in their chosen lines. They have been established by the State and Federal Boards of Vocational Education and are supported by State and United States funds provided by the Smith-Hughes Law. The engineering plant of the College is available for this instruction. The two years of work may be used for entrance to A. and M. College.

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OUTLINE OF TRADES COURSES

FIRST YEAR

FIRST SEMESTER

	Cl.	Pr.
English 11	5	
General Science 11	3	(2)
Mechanical Drawing 13		(4)
Auto Mechanics 11 or		(16)
Machineshop Practice 11 or		(16)
Cabinetmaking 11 or		(16)
Carpentering 11		(16)
Military		(3)

SECOND SEMESTER

	Cl.	Pr.
English 12	5	
General Science 12	3	(2)
Mechanical Drawing 14		(4)
Auto Mechanics 12 and Forge 12		(12) (4)
Machineshop Practice 12 or		(16)
Cabinetmaking 12 or		(16)
Carpentering 12		(16)
Military		(3)

SECOND YEAR

	Cl.	Pr.
English 21	4	
Citizenship 21	1	
Shop Mathematics 21	4	
Mechanical Drawing 23		(6)
Auto Mechanics 21 and Forge 23		(12) (4)
Machineshop Practice 21 or		(16)
Cabinetmaking 21 or		(16)
Carpentering 21		(16)
Military		(3)

	Cl.	Pr.
English 22	4	
Citizenship 22	1	
Shop Mathematics 22	4	
Mechanical Drawing 24		(6)
Auto Mechanics 22 or		(16)
Machineshop Practice 22 or		(16)
Cabinetmaking 22 or		(16)
Carpentering 22		(16)
Military		(3)

SUBJECTS

Mechanical Drawing 13. Practice 4 hours.

The elemental principles and processes of making accurate working drawings. All work is done from models. Applied drawing.

Mechanical Drawing 14. Practice 4 hours.

The making of working drawings continued; threads, machine parts, tracing and blueprinting are included.

Mechanical Drawing 23. Practice 6 hours.

This course is applied to the various trades courses as follows:

Machineshop Practice.—Students make drawings of machines, both detailed and assembled.

Text: "Mechanical Drafting", Miller.

Auto Mechanics.—Make working drawings of gasoline and auto engines and parts.

Text: "Automobile Repairing Made Easy", Page.

Carpentry.—Students begin architectural drawing of house construction.

Text: "Architectural Drawing", Windoes and Campbell.

Cabinetmaking.—Students make working drawings of cabinet construction and inside finish.

Mechanical Drawing 24. Practice 6 hours.

A continuation of Mechanical Drawing 23.

Forge 12, 22. Shop practice 4 hours each.

First blacksmithing—heating, shaping and welding. Tempering and hardening of steel. Pipefitting and drillpress work. Covered in lectures and practice.

Forge 23. Shop practice 4 hours.

Prerequisite: Forge 12.

Soldering, brazing and oxy-acetylene welding, toolmaking and types of casehardening.

Text: "Automobile Welding With Oxy-Acetylene Flame", Dunham.

Auto Mechanics 11 Auto Repairing. First semester 16 hours.

Taking down engines, reassembling them and adjusting all parts.

Text: Automobile Repairing Made Easy", Page.

Auto Mechanics 12. 12 hours.

General repairing of transmisison, rear axle, steering gear, wheels, etc.

Auto Mechanics 21. Auto repairing 12 hours.

Magento, starting ignition and lighting, carburetor adjustment and study, running in bearings, engine repair and replacement of parts. Machineshop work is used in auto repairing. Forging includes soldering, brazing and oxy-acetylene welding.

Text: "Modern Starting, Lighting and Ignition Systems", Page.

Auto Mechanics 22. Auto repairing 12 hours, machineshop 4 hours.

General auto repairing. In this semester students will work on repairing of cars and will make the usual student labor charge for

their work, thus obtaining some remuneration for their labor. Machineshop applied to auto repairing.

Machineshop Practice 11. Machineshop 16 hours.

The use of lathe, shaper and planer on exercise work.
Text: Machineshop Practice", Kaup.

Machineshop Practice 12. Machineshop 12 hours, Forge 12, 4 hours.

In this semester the student begins work on a productive basis. Several glue presses and lathes are to be built and machineshop practice students will do all of the machineshop work on these.
Text: Same as for first semester.

Machineshop 21. Machineshop 12 hours, Forge 23, 4 hours.

The work of this semester consists entirely of toolmaking, involving use of milling machine and grinder, and the heat treatment of steel in annealing, casehardening, etc.
Text: "Hardening, Tempering and Forging of Steel", Woodworth.

Machineshop Practice 22. Machineshop practice 16 hours.

Machine work on productive basis with cost of production of complete machine figured.
No text.

Carpentry 11. Carpentry 16 hours.

The classes in carpentry have always been supplied with work by the College. Garages, chicken houses, barns, etc., are built, giving the student practice experience.
Text: "Carpentry", Griffith.

Carpentry 12. Carpentry 16 hours.

Same as first semester.

Carpentry 21. Carpentry 16 hours.

When the class in carpentry reaches a sufficient enrollment the Department of Shop Practice will contract to build a cottage near the College, and in this way will furnish students in the carpentering course practical and profitable experience.

Carpentry 22. Carpentry 16 hours.

Continuation of third semester.

Cabinetmaking 11, 12, 21, 22.

All Semesters.—The College furnishes the shops with sufficient cabinetmaking work to keep many boys busy on productive work, such as storage cases, exhibit cases, chairs, desks and many other types of cabinet furnishing. After a student reaches a certain proficiency in his work he is paid for his time spent on productive work.
Text: "Woodwork for Secondary Schools", Griffith.

THE SCHOOL OF HOME ECONOMICS

RUTH MICHAELS, *Dean*

Courses of study in home economics have been developed as a result of social and economic changes. These changes have created a demand for an education which will prepare young women to be more serviceable in their homes and communities. In keeping with this idea, the school includes those subjects which will make not only specially trained workers, but also broadly educated young women.

This school offers the following three courses leading to a Bachelor of Science degree in home economics: (1) A general course in home economics for those students who desire to combine a comprehensive study of the home, together with the arts and sciences directly connected with its management. (2) A teacher's training course, approved by the Federal Board of Vocational Education, for those students who desire to enter the teaching field. (3) A demonstration agent's course for the preparation of county and urban agents. (4) A two-year course in secondary vocational home economics granting a certificate.

During the Summer Session, special courses for teachers are offered which will enable teachers to prepare themselves for the certificate examinations in these subjects, and which will also help them in planning courses of study, in the selection of equipment, and in the arranging of a laboratory for their schools. These courses will also include a discussion of the current problems arising in the field of home economics. For detailed announcement, see Summer School Bulletin.

During Farmers Week, courses are offered for the women who are interested in the study of household problems, and who cannot regularly enroll for College attendance. Work of the following type will be handled by lectures, laboratory and demonstration methods: Feeding of various groups of people; methods of preparation and service of these foods; household sanitation;

house furnishing, house decoration; selection of materials for clothing, cutting and making garments.

Many positions are open for graduates of these various courses, not only in the teaching field, but as house, institutional managers, as demonstration agents in city and country, in college extension work, as dietitians and in many other lines of work.

Students who are majoring in other lines of work and desire some knowledge of home economics as a part of their general education may elect such courses as they are prepared to carry.

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COURSES IN THE SCHOOL OF HOME ECONOMICS

The following outline of study represents the required and elective work in the School of Home Economics. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject and the even numbers, as 102, the second semester's work. Subjects of the Sophomore, Junior and Senior years are numbered accordingly, two hundred for Sophomore, three hundred for Junior and four hundred for Senior work. One hour of laboratory period is equivalent to one-third of a classroom period in estimating the number of hours per week to be taken.

The total requirements for graduation are 128 credits exclusive of any credits given in physical education. Students will not be allowed to register in less than 12 nor more than 20 credit hours.

In the outline below figures without parenthesis indicate hours of classwork, in parenthesis hours of laboratory work.

Home Economics

FRESHMAN YEAR (All Courses)

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Eng. 101, College	3		3	Eng. 102, College	3		3
Chem. 101, Inorganic	3	(4)	4⅓	Chem. 102, Inorganic	2	(4)	3⅓
H. E. 105, Textiles and Clothing	2	(4)	3⅓	H. E. 106, Textiles and Clothing	2	(4)	3⅓
H. E. 103, Survey	1		1	Zool. 102, Economic	2	(4)	3⅓
Physics 103, Elementary	2	(4)	3⅓	Draw. 106, Constructive Art Application		(4)	1⅓
Draw. 105, Industrial Art Drawing		(4)	1⅓	Pub. Spk. 123, Essentials	2		2
Physical Education		(3)		Physical Education		(3)	

General Home Economics

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Eng. 207, English Literature	3		3	Eng. 208, English Literature	3		3
Chem. 207, Qualitative Analysis	1	(3)	2	Chem. 208, Food Chemistry	1	(6)	3
Chem. 205, Organic	2	(3)	3	H. E. 204, Food Study	2	(4)	3⅓
H. E. 203, Food Study	2	(4)	1⅓	Physiol. 202, Advanced	3	(2)	3⅔
H. E. 209, Advanced Textiles	1	(2)	1⅔	Elective	3		3
Elective	3		3	Physical Education		(3)	
Physical Education		(3)					

JUNIOR YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 203, News Writing	2		2
H. E. 311, Food and Nutrition	3		3
H. E. 307, History of Costume	2		2
H. E. 309, Drafting and Dressmaking		(4)	1⅓
H. E. 313, Clothing Appreciation		(6)	2
Bact. 303, Household	2	(4)	3⅓
Elective	3		3

SECOND SEMESTER

	Hours		Cr.
Eng. 204, Magazine and Editorial	2		2
H. E. 314, Dietetics	2	(4)	3⅓
H. E. 310, Advanced Dressmaking		(4)	1⅓
Econ, 308, Business for Women	2		2
Hist. 306, Industrial History of United States	3		3
Elective	4		4

SENIOR YEAR

FIRST SEMESTER

	Hours		Cr.
H. E. 415, The House	1	(4)	2⅓
H. E. 421, Women and the Family	3		3
H. E. 413, Advanced Tailoring	1	(4)	2⅓
Elective	9		9

SECOND SEMESTER

	Hours		Cr.
H. E. 404, House Furnishing	1	(4)	2⅓
H. E. 418, Household Administration	3	(4)	4⅓
Elective	9		9

Teacher Training

SOPHOMORE YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 207, English Literature	3		3
Chem. 207, Qualitative Analysis	1	(3)	2
Chem. 205, Organic	2	(3)	3
H. E. 203, Food Study	2	(4)	3⅓
H. E. 209, Advanced Textiles	1	(2)	1⅔
Edu. 101, Psychology	2		2
Elective	2		2

SECOND SEMESTER

	Hours		Cr.
Eng. 208, English Literature	3		3
Chem. 208, Food Chemistry	1	(6)	3
H. E. 204, Food Study	2	(4)	3⅓
Physiol. 202, Advanced	3	(2)	3⅔
Edu. 102, Principles of Education	2		2
Elective	2		2

JUNIOR YEAR

FIRST SEMESTER

	Hours		Cr.
H. E. 311, Food and Nutrition	3		3
H. E. 307, History of Costume	2		2
H. E. 309, Drafting and Dressmaking		(4)	1⅓
H. E. 313, Clothing Appreciation		(6)	2
Bact. 303, Household	2	(4)	3⅓
Elective	4		4

SECOND SEMESTER

	Hours		Cr.
H. E. 314, Dietetics	2	(4)	3⅓
H. E. 310, Advanced Dressmaking		(4)	1⅓
H. E. 316, Special Methods in Home Economics Education	2		2
Econ. 308, Business for Women	2		2
Hist. 306, Industrial History of United States	3		3
Elective	3		3

SENIOR YEAR

FIRST SEMESTER

	Hours		Cr.
H. E. 405, Home Economics Education	1	(4)	2⅓
H. E. 415, The House	1	(4)	2⅓
Edu. 201, History of Modern Education	2		2
H. E. 429, Child Welfare	3		3
Elective	6		6

SECOND SEMESTER

	Hours		Cr.
H. E. 406, Home Economics Education	1	(4)	2⅓
H. E. 404, House Furnishing	1	(4)	2⅓
H. E. 418, Household Management	3	(4)	4⅓
Edu. 202, Methods and Management	2		2
Elective	5		5

Demonstration Agents

SOPHOMORE YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 207, English Literature	3		3
Chem. 207, Qualitative	1	(3)	2
Chem. 205, Organic	2	(3)	3
H. E. 203, Food Study	2	(4)	3⅓
Econ. 201, Principles of Economics	3		3
Elective	2		2
Physical Education		(3)	

SECOND SEMESTER

	Hours		Cr.
Eng. 208, English Literature	3		3
Chem. 208, Food Chemistry	1	(6)	3
H. E. 204, Food Study	2	(4)	3⅓
Physiol. 202, Advanced	3	(2)	3⅔
Hort. 104, Vegetable Gardening	2	(2)	2⅔
Elective	2		2
Physical Education		(3)	

JUNIOR YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 203, News Writing	2		2
H. E. 311, Food and Nutrition	3		3
H. E. 313, Clothing Appreciation		(6)	2
Bact. 303, Household	2	(4)	3⅓
P. H. 305, Farm Poultry	2	(4)	3⅓
Elective	3		3

SECOND SEMESTER

	Hours		Cr.
Eng. 204, Magazine and Editorial	2		2
H. E. 314, Dietetics	2	(4)	3⅓
Econ. 308, Business for Women	2		2
Bact. 304, Sanitary Science	2	(4)	3⅓
P. H. 308, Incubation and Brooding		(6)	2
Elective	3		3

SENIOR YEAR

FIRST SEMESTER

	Hours		Cr.
H. E. 415, The House	1	(4)	2⅓
H. E. 423, Organization of Club Work	2		2
H. E. 416, Experimental Cookery	1	(4)	2⅓
Dairy 409, Domestic Dairying	1	(3)	2
Elective	7		7

SECOND SEMESTER

	Hours		Cr.
H. E. 404, House Furnishing	1	(4)	2⅓
H. E. 418, Household Administration	3	(4)	4⅓
Econ. 414, Rural Economics	2		2
Hort. 402, Landscape Gardening	2	(2)	2⅔
P. H. 408, Extension Work	2		2
Elective	3		3

Students desiring an Oklahoma state teacher's certificate must carry four hours in Education in addition to Education 101, 102, 201 and 202. They must also obtain a credit in public school music, and in one year of agriculture.

For a two-year state certificate students must carry one year's College work with credits in Education 101, 102, 201 and 202; Oklahoma history, public school music and agriculture.

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FOODS, COOKERY AND HOME MANAGEMENT

RUTH MICHAELS, *Professor*
BERNICE WAIT, *Instructor*
GERTRUDE THOMAS, *Instructor*
AURA KEEVER, *Instructor-Supervisor Practice Teaching*
ALICE STEWART, *Instructor-Supervisor Practice House*

The department has well equipped office, laboratories and lecture room. The laboratories are finished in white enamel and are equipped for the various lines of work, and adjoining the labora-

tories are storerooms and a dining room; the latter furnished in attractive style is used in connection with the planning and serving of meals.

A small house near the campus is used as a practice house by the senior women, and does much to strengthen the work in Household Administration.

In the library may be found splendid reference books and bulletins, as well as the technical magazines.

SUBJECTS

103 Introduction to Home Economics. Class 1 hour. Credit 1.

Study of women's education with special reference to home economics and the vocations open in this field.

203 Food Study. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Chem. 102.

This course introduces the scientific and economic study of foodstuffs. The work in the laboratory consists of the experimental study of food processes as applied to the various foods, and the cost and food value of each. This is illustrated by the preparation of foods and the planning and serving of simple meals.

Text: Food Products, Sherman.

204 Food Study (continued). Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: H. E. 203.

Continuation of Home Economics 203.

Text: Food Products, Sherman.

311 Nutrition. Class 3 hours. Credit 3.

Prerequisite: H. E. 204; Chem. 208; Physiol. 202.

A study of the processes of metabolism, the fuel value of foods, and the energy requirement of the body.

Text: Chemistry of Foods, Sherman.

314 Dietetics. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: H. E. 311.

The study of the diet of individuals and groups under varying conditions of health and environment; also the relation between the nutritive value and cost of foods and the service of meals.

Text: Manual of Dietetics, Rose.

316 Special Methods in Home Economics Eductation. Class 2 hours, laboratory 2 hours. Credit 2⅔.

Prerequisite: All preceding work in the teachers' course in home economics.

Course is designed for students intending to teach home economics. Study of home economics course in the various types of schools; equipment and maintenance of the work. Observation of teaching required.

405 Home Economics Education. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: H. E. 316.

Study of methods of instruction. Planning courses of study, observation and practice classes are required.

406 Home Economics Education. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: H. E. 405.

Continuation of Home Economics 405.

416 Experimental Cookery. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Study of individual problems. Each student selects some problems in foods or related subjects, giving the results in the form of a demonstration.

417 Cafeteria Practice. Laboratory 3 hours. Credit 1.

Prerequisite: H. E. 306.

This course is intended for students who are interested in problems connected with the management of a school cafeteria.

418 House Management. Class 3 hours, laboratory 5 hours. Credit 4⅔.

Prerequisite: Bact. 303; H. E. 204, 314.

Course includes study of principles of scientific management of the house; budget-making; social, civic and economic duties and responsibilities of the homemaker. Laboratory work includes four weeks residence in Practice House where detailed studies are made of time, of efficiency of methods, and of financial expenditures involved in the household processes; practice home nursing.

Text: Being Well Born; Standards of Living, Streightoff.

420 History of Home Economics. Class 1 hour. Credit 1.

Open to Seniors only. Study of home economics movement.

421 Woman and the Family. Class 3 hours. Credit 3.

Prerequisite: H. E. 103; Econ. 308.

A study of woman's work and her industrial and economic conditions with reference to the home and society.

423 Organization of Club Work. Class 2 hours. Credit 2.

Prerequisite: Preceding work in agent's training course.

Study of methods used in the organization and management of club work among girls and women as provided for under the Smith-Lever Bill.

427 Advanced Foods and Nutrition. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: H. E. 314; Chem. 313 and 314.

A study of the nutrition of the human body and the physiological value of foods.

429 Home Economics—Child Welfare. Class 3 hours. Credit 3.

A course dealing with the various aspects of child care, such as physical and mental development, child hygiene, child labor and recreation.

TEXTILES, CLOTHING AND SHELTER

NORA A. TALBOT, *Professor*
HELEN WENTWORTH, *Instructor*
BETH CROWLEY, *Instructor*

The department is located in the east wing of the Woman's Building and has well equipped sewing laboratories, locker room and office. The laboratories are furnished with sewing tables, sewing machines, electric irons, dress forms, drafting systems, looms, illustrative material, and textile exhibits.

The following courses in Textile, Clothing and Shelter have a two-fold aim:

The first is to develop skill in sewing, in application of good design, in choosing clothes, style and materials, and the application of the foregoing to practical problems in clothing. The second, that of a professional aim, added to the first, is the study of subject matter, processes and projects, teaching possibilities, methods of presentation and class management, theory and practice teaching. In this the course is such that it leads to the teaching of home economics or home economics work as a demonstration agent.

SUBJECTS

105 Textiles and Clothing. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Class study of textile fibers and fabrics, with discussions, demonstrations and practice in garment construction. Special emphasis is placed on comparative study of home and factory products.

Text: Textiles, Woolman and McGowan.

106 Textiles and Clothing. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: H. E. 105.

Continuation of Home Economics 105.

209 Advanced Textiles. Class 1 hour, laboratory 2 hours. Credit 1⅔.

Prerequisite: H. E. 106; Chem. 102.

Course includes detailed microscopic identification; chemical testing of fabrics; the composition and characteristics of adulterants; and simple dyeing processes.

Text: Textiles, Woolman and McGowan.

309 Drafting, Modeling and Dressmaking. Laboratory 4 hours. Credit 1⅓.

Prerequisite: H. E. 209.

Course includes drafting of garments, alteration of patterns, study of line and form, making of tight-fitting lining. Modeling in paper a pattern designed in Home Economics 313.

310 Advanced Dressmaking. Laboratory 4 hours. Credit 1⅓.

Continuation of Home Economics 309.

Prerequisite: H. E. 309, 313.

Problems include construction of gowns, based on principles of Home Economics 313.

Problems include construction of gowns, using principles of this, some work in millinery.

313 Clothing Appreciation. Laboratory 6 hours. Credit 2.

Prerequisite: H. E. 106; Draw. 106.

Course dealing with application of art principles, such as design and color in clothing construction.

Text: Textiles and Costume Design, E. P. Ellsworth.

307 History of Costume. Class 2 hours. Credit 2.

Prerequisite: H. E. 106.

Costume study of various periods and countries with reference to its influence on modern styles.

Text: Dress Design, Talbot-Hughes.

413 Advanced Tailoring. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: H. E. 209-310.

An academic study of tailored garments. Designing and making a coat embodying the principles of line, texture and color as brought out in Home Economics 313.

414 Art Needlework. Laboratory 4 hours. Credit 1⅓.

Prerequisite: H. E. 105.

A study of embroidery and its application in individual problems.

415 The House. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: Draw. 106; Bact. 303.

A study of the requirements of the home as to surroundings, room arrangement and equipment from the viewpoint of an efficient homekeeper.

Text: Mechanics of the Household, Keene; Domestic Architecture, Robinson.

404 House Furnishing. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: H. E. 415.

The principles of house decorating and furnishing with application to individual problems.

Text: Interior Decoration, Rolfe.

419 Millinery. Laboratory 3 hours. Credit 1.

Prerequisite: H. E. 206, 307.

A study of hats, the styles and shapes most becoming; frames, bows and trimmings. Renovation of materials and making over hats.

422 Textile Research. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: H. E. 209; Chem. 312.

Detailed analysis of fabrics; textile legislation; individual problems dealing with phases of standardized textiles.

VOCATIONAL HOME ECONOMICS

HELEN E. CANT, *Instructor*

This course is offered to give practical training in home duties for girls who do not wish to enter a college course. The work covers practicatlly all the home processes that the average housewife will meet in her home. The course is so designed that a girl will acquire not merely the mechanical skill involved in all her home duties but that she will learn to combine intelligence and interest along with that skill. The entire Home Economics Department of the College is available for this instruction. Courses in piano, voice, violin, etc., are open to the students. A certificate of completion is issued.

The course is established by the State and Federal Boards of Vocational Education and is supported by State and United States funds provided by the Smith-Hughes Law.

The course is so arranged that a student may enter the third year of the Secondary School upon completion of the vocational home economics course, using her vocational work as 8 out of the 15 units required for college entrance. The student must be at least 14 years of age and must have completed the common school if the vocational course is used for college entrance.

Vocational Home Economics

(Non-Collegiate)

FIRST SEMESTER

	Hours	
English 11	4	
Arithmetic 11	4	
Industrial Drawing 11		(4)
H. E. 11, Plain Sewing	1	(6)
H. E. 13, Food Study and Cookery	1	(6)
Physical Education		(3)

SECOND SEMESTER

	Hours	
English 12	4	
Physiology 12	3	(2)
Industrial Drawing 12		(4)
H. E. 12, Plain Sewing	1	(6)
H. E. 14, Food Study and Cookery	1	(6)
Physical Education		(3)

FIRST SEMESTER

	Hours	
English 21	4	
General Science 21	2	(4)
H. E. 21, Home Nursing and Hygiene	2	(2)
H. E. 23, Dressmaking and Millinery	1	(4)
H. E. 25, Cookery	1	(4)

SECOND SEMESTER

	Hours	
English 22	4	
General Science 22	2	(4)
H. E. 22, House Planning and Furnishing	1	(4)
H. E. 24, Dressmaking and Millinery	1	(4)
H. E. 26, Housekeeping	1	(4)

SUBJECTS

H. E. 11 Plain Sewing. Class 1 hour, laboratory 6 hours.

Principles of hand and machine sewing applied to simple undergarments. Mending and patching. Study of textiles and fabrics used. Care and repair of clothing. Hygiene of clothing.

Text: Shelter and Clothing, Kinne and Cooley.

H. E. 12. Sewing and Textiles. Class 1 hour, laboratory 4 hours.
Continuation of Home Economics 11.

H. E. 13 Food Study and Cookery. Class 1 hour, laboratory 6 hours.
Study of foods covering source, purchase, food value and preparation for use. Laboratory work to correlate with classwork—practice in the preparation of foods, including cost and service.
Text: Foods and Household Management, Kinne and Cooley; Textbook of Cooking, Green.

H. E. 14 Food Study and Cookery.
Continuation of Home Economics 13.

H. E. 21 Home Nursing and Hygiene. Class 2 hours, laboratory 2 hours.
A study of the home care of the sick; general care of the sick-room; emergencies.

H. E. 22 House Planning and Furnishing. Class 1 hour, laboratory 4 hours.
Study of modern house from standpoint of sanitation, location, floor space, arrangement and cost. Practical course in house furnishing.

H. E. 23 Dressmaking and Millinery. Class 1 hour, laboratory 4 hours.
Study of textile fibers and fabrics; clothing appreciation; history of costume; economics of clothing. Elementary dressmaking, renovating of garments.

H. E. 24.
Continuation of Home Economics 23.

H. E. 25 Advanced Cookery. Class 1 hour, laboratory 4 hours.
Food study and cookery, including elementary dietetics, planning and serving of meals.

H. E. 26. Housekeeping. Class 1 hour, laboratory 4 hours.
Care of the house, laundering, household accounts. Students to live in practice house part of the time, where they may put into practice knowledge gained in class and laboratory, and have experience of managing a home.

Industrial Drawing 11. Practice 4 hours.
Principles of design and harmony of color developed through decorative arrangement and artistic rendering from observation of nature forms.

Industrial Drawing 12. Practice 4 hours.
Principles of constructive design and color applied to problems in industrial art, including projects in paper, cardboard and cloth.

Non-vocational subjects (Eng. 11, 12, 21, 22; Arith. 11, Physiology 12, Gen. Sci. 12) are taught in the Secondary School. (See index for description of courses.)

THE SCHOOL OF SCIENCE AND LITERATURE

L. L. LEWIS, *Dean*

The courses in the School of Science and Literature offer a sound basis for training in mathematics, chemistry, physics, biological sciences and in the languages. It is also becoming more and more evident that one's education should include some work in history, social science and in economics. These related subjects give a better understanding of one's duties and responsibilities as a citizen, and a broad and liberal view of the relations of the individual to society.

The work of the school is presented to the prospective student along three lines. The Freshman year is the same for those electing the General Science and the Exact Science work. For those electing the General Literature course, zoology and economics may be substituted for the mathematics of this year. With this minor difference in the Freshman year, the differentiation of the work in the three divisions appears in the Sophomore year. First, the general science work, where biological and chemical sciences represent a large part of the science work offered; second, the exact science work, represented largely by mathematics, physics and chemistry; and third, in the general literature division, where work in English and the foreign languages represents a large portion of the course, but opportunities are offered for work in sociology, economics and education. Where other courses offer vocational subjects, the science and literature work, by means of groups of electives, offer special opportunities for work in either the sciences or languages. Opportunities for selecting work of this character meets the needs of students desiring a liberal education as a foundation for professional courses, as law or medicine, as well as those students who desire to secure a training that is well balanced in respect to literature, science and cultural subjects.

Electives

Students who elect either the exact or general science work will be permitted to substitute in either of these courses work selected from the other course, and to some extent work selected from other courses offered in the College. Such substitutions will be permitted after consultation with the dean of the school, and approval of the Committee on Substitutions.

Electives in the general literature group are so arranged as to permit the student to elect along the following lines: Foreign language, social science, economics or science. Students should select their electives along one of these lines.

Relations to Other Schools

Besides the instruction given to students in the School of Science and Literature, the instructional force gives much of the collateral work offered in the other schools of the College. Other schools of the College cooperate in giving some of the work offered in the School of Science and Literature.

Equipment

All of the departments represented in the School of Science and Literature are well equipped to give the work they offer. The laboratories are especially well equipped for scientific work in chemistry, physics, botany and bacteriology.

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COURSES IN THE SCHOOL OF SCIENCE AND LITERATURE

The following outline of study represents the required and elective work in the School of Science and Literature. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject and the even numbers, as 102, the second semester's work. Subjects of the Sophomore, Junior and Senior years are numbered accordingly—two hundred for Sophomore, three hundred for Junior and four hundred for Senior work. One hour of laboratory period is equivalent to one-third of a classroom period in estimating the number of hours per week to be taken.

The total requirements for graduation are 128 credits, exclusive of any credits given in military science and physical education. Students will not be allowed to register in less than 12 nor more than 20 credit hours.

In the outline below, figures without parenthesis indicate hours of classwork; in parenthesis hours of laboratory work.

Any student may elect the work of the Reserve Officers Training Corps, which counts 2 hours credit in each semester of the Junior and Senior years. This credit will be accepted as a substitute for elective work, or for required work by special arrangement.

FRESHMAN YEAR

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Chem. 101, Inorganic	3	(4)	4⅓	Chem. 102, Inorganic	2	(4)	3⅓
Eng. 101, College	3		3	Eng. 102, College	3		3
Latin 101, Caesar or Foreign Language 101	3		3	Latin 102, Caesar or Foreign Language	3		3
Math. 105, Algebra	4		4	Math. 108, Trigonometry	3		3
Draw. 101, Freehand		(4)	1⅓	Draw. 102, Freehand		(4)	1⅓
Physical Education		(3)		Pub. Spk. 101	2		2
Military Science		(3)		Physical Education		(3)	
				Military Science		(3)	

General Science

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Chem. 201, Qualitative Analysis	2	(6)	4	Chem. 210, Quantitative Analysis	2	(6)	4
Eng. 201, Advanced Composition or Eng. 203, News Writing	2		2	Eng. 202, Advanced Composition or Eng. 204, Magazine Writing	2		2
Zool. 201, General	3	(4)	4⅓	Zool. 210, Comparative Anatomy	2	(4)	3⅓
Physical Education (Women)		(3)		Math. 204, Astronomy	2		2
Military Science		(3)		Physical Education (Women)		(3)	
Elective			5⅔	Military Science		(3)	
				Elective			4⅔

SUGGESTED SOPHOMORE ELECTIVES

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Pub. Spk. 201	2		2	Pub. Spk. 202	2		2
Eng. 205, Current Literature	1		1	Eng. 206, Current Literature	1		1
Edu.	3		3	Edu.	3		3
Hist.	3		3	Hist.	3		3
Econ. 201, Principles	3		3	Econ. 206, Business Management	3		3
Physics 320, Lecture Course	2		2	Physics 430, Meteorology	2		2
Physics 201, General	4	(3)	5	Physics 202, General	4	(3)	5

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Bot. 101, General	2	(4)	3⅓	Bot. 102, General	2	(4)	3⅓
Chem. 311, Organic	3	(4)	4⅓	Chem. 312, Organic	3	(4)	4⅓
Ento. 202, General	3	(2)	3⅔	Bact. 310, General	3	(4)	4⅓
Foreign Language	3		3	Hist. 306, Industrial	3		3
Elective			2	Foreign Language	3		3

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Bact. 403, Immunity	3	(4)	4⅓	Bact. 404, Immunity	3	(4)	4⅓
Edu. 301, Psychology	3		3	Edu. 302, Applied Psychology	3		3
Zool. 401, General Biology	3	(2)	3⅔	Bot. 304, Plant Physiology	2	(2)	2⅔
Foreign Language	2		2	Foreign Language	2		2
Elective			3	Elective			4

SENIOR AND JUNIOR ELECTIVES

FIRST SEMESTER	Hours		Cr.
Bact. 405, Agricultural	2	(4)	3⅓
Chem. 401, Advanced Inorganic	3	(6)	5
Chem. 305, General Organic	3	(7)	5⅓
Bot. 401, Advanced Systematic	1	(6)	3
Ento. 303, Horticultural	2	(4)	3⅓
Edu. 412, Science Teaching	2		2

SECOND SEMESTER	Hours		Cr.
Bact. 402, Sanitary Science	3		3
Chem. 402, Physical	2	(6)	4
Ento. 306, Apiculture	3	(2)	3⅓
Physiol. 202, Advanced	3	(2)	3⅓
Zool. 402, Embryology	2	(4)	3⅓
Edu. 414, Mathematics Teaching	2		2
Chem. 304, Advanced Quantitative	2	(6)	4

Exact Science

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 201, Advanced Composition or Eng. 203, News Writing	2		2
Chem. 201, Qualitative Analysis	2	(6)	4
Physics 201, General	4	(3)	5
Math. 207, Analytics and Calculus	5		5
Physical Education (Women)		(3)	
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Eng. 202, Advanced Composition or Eng. 204, Magazine Writing	2		2
Chem. 210, Quantitative Analysis	2	(6)	4
Physics 202, General	4	(3)	5
Math. 208, Calculus	5		5
Physical Education (Women)		(3)	
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Chem. 311, Organic	3	(4)	4⅓
Foreign Language	3		3
Physics 303, Advanced	3	(3)	4
Math. 301, Differential Equations	3		3
Pub. Spk. 201	2		2

SECOND SEMESTER	Hours		Cr.
Chem. 312, Organic	3	(4)	4⅓
Foreign Language	3		3
Physics 304, Advanced	3	(3)	4
Math. 302, Differential Equations	3		3
Hist. 306 or Edu. 412	2		2

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Chem. 401, Advanced Inorganic	3	(6)	5
Physics 403, Advanced	3	(3)	4
Foreign Language	2		2
Edu. 301, Psychology	3		3
Chem. 321, Geology	2		2

SECOND SEMESTER	Hours		Cr.
Chem. 402, Physical	3	(6)	5
Physics 404, Advanced	2	(3)	3
Physics 420, Teaching of Physics	1		1
Edu. 302, Applied Psychology	3		3
Foreign Language	2		2
Math. 204, Astronomy	2		2

General Literature

FRESHMAN YEAR

FIRST SEMESTER	Hours		Cr.
Chem. 101, Inorganic	3	(4)	4⅓
Eng. 101, College	3		3
Foreign Language	3		3
Math. 105, Algebra or Zool. 201, General	3	(4)	4⅓
Draw. 101, Freehand		(4)	1⅓
Edu. 101, Psychology	2		2
Physical Education (Women)		(3)	
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Chem. 102, Inorganic	2	(4)	3⅓
Eng. 102, College	3		3
Foreign Language	3		3
Math. 108, Trigonometry or Econ. 104, Products of Commerce	3		3
Draw. 102, Freehand		(4)	1⅓
Pub. Spk. 101, Essentials	2		2
Physical Education (Women)		(3)	
Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 201, Advanced Composition or Eng. 203, News Writing	2		2
Eng. 207, English Literature	3		3
Foreign Language	3		3
Hist. 205, English	3		3
Physics 105, General	3	(2)	3⅔
Military Science		(3)	
Elective	1		1⅔

SECOND SEMESTER	Hours		Cr.
Eng. 202, Advanced Composition or Eng. 204, Magazine and Editorial Writing	2		2
Eng. 208, English Literature	3		3
Foreign Language	3		3
Hist. 206, English	3		3
Physics 106, General	3	(2)	3⅔
Military Science		(3)	
Elective	1		1

SOPHOMORE ELECTIVES

FIRST SEMESTER	Hours		Cr.
Foreign Language	3		3
Agriculture or Home Economics	2	(4)	3⅓
Eng. 205, Current Literature	2		2
Ppb. Spk. 201, Debate	2		2
Chem. 205, Elementary Organic	2	(3)	3
Physics 320, Lecture Course	2		2

SECOND SEMESTER	Hours		Cr.
Foreign Language	3		3
Agriculture or Home Economics	3		3
Eng. 206, Current Literature	2		2
Math. 204, Astronomy	2		2
Pub. Spk. 202, Oratory	2		2
Physics 430, Meteorology	2		2

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 303, American Literature or Eng. 305, English Language (Alternate years)	2		2
Foreign Language	3		3
Hist. 307, United States	3		3
Edu. 301, Psychology	3		3
Elective	5		5

SECOND SEMESTER	Hours		Cr.
Eng. 304, American Literature or Eng. 306, English Language (Alternate years)	2		2
Foreign Language	3		3
Hist. 308, United States	3		3
Edu. 302, Applied Psychology	3		3
Elective	5		5

SUGGESTED JUNIOR ELECTIVES

FIRST SEMESTER	Hours		Cr.
Foreign Language	3		3
Eng. 307, Bible Literature	2		2
Pub. Spk. 301, Extempore	2		2
Soc. Sci. 301, Sociology	2		2
Bot. 101, General	2	(4)	3⅓
Eng. 405, The Novel or Eng. 407, Masterpieces (Alternate years)	2		2

SECOND SEMESTER	Hours		Cr.
Foreign Language	3		3
Eng. 308, Bible Literature	2		2
Pub. Spk. 302, Literary Interpretation	2		2
Soc. Sci. 304, Social Problems	2		2
Bot. 102, General	2	(4)	3⅓
Eng. 406, The Novel or Eng. 408, Masterpieces (Alternate years)	2		2

SENIOR YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 401, Carlyle and Ruskin	3		3
Foreign Language or Econ. 201, Principles	3		3
Hist. 401, Modern Europe	3		3
Elective	7		7

SECOND SEMESTER	Hours		Cr.
Eng. 404, Drama, Shakespeare	3		3
Foreign Language or Econ. 206, Business Management	3		3
Hist. 402, Modern Europe	3		3
Elective	6		6

SUGGESTED SENIOR ELECTIVES

FIRST SEMESTER	Hours		Cr.
Foreign Language	3		3
Pub. Spk. 303, Oral English	2		2
Edu. 415, History Teaching	2		2
Zool. 401, General Biology	2	(4)	3⅓
Eng. 403, Romantic Movement	3		3
Edu. 405, Ethics	2		2
Soc. Sci. 401, Government	2		2

SECOND SEMESTER	Hours		Cr.
Foreign Language	3		3
Pub. Spk. 304, Debating Seminar	2		2
Edu. 416, English Teaching	2		2
Bact. 310, General	2	(4)	3⅓
Eng. 402, Victorian Poets	3		3
Edu. 406, Logic	2		2
Soc. Sci. 402, Political Theory	2		2
Hort. 408, General	3	(2)	3⅔

Three years of a foreign language will be required for graduation, two of these years' work being in the same language.

Where free electives are offered, students may substitute 8 credits in music and art toward graduation.

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DEPARTMENT OF BACTERIOLOGY AND ZOOLOGY

L. L. LEWIS, *Professor*
R. O. WHITENTON, *Associate Professor*
C. H. MCELROY, *Assistant Professor*
E. E. HARNDEN, *Assistant*
RUBY LAUDERDALE, *Assistant*
KATHERYN PERCIVAL, *Student Assistant*

The Department of Bacteriology and Zoology occupies quarters on the second floor of the Library Building. The equipment of microscopes, simple and compound; lanterns, microtomes, incubators, etc., is ample for the accommodation of all classes. The department is also well equipped with dissectable models and skeletons as well as charts for both physiology and zoology. The department gives not only the work in bacteriology and zoology required in the science courses, but a large amount of teaching is required in other departments, as in the Schools of Agriculture, Domestic Science, etc. The policy of the Department of Bacteriology and Zoology is to adapt the work to the needs of students coming from other schools of the College. The following work is offered by the department in the regular College courses:

SUBJECTS

Bacteriology

310 General Bacteriology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite to all other courses in bacteriology except Bact. 303 and 402.

Required: General Science, Animal Husbandry.
Elective: Commerce and Marketing, School of Education.

This course covers the general principles of the science and enables the student to understand the importance of bacteria as related

to disease, their economy in nature and their relation to the various industries, such as dairying, soil fertility, fermentation, etc.

Text: Hiss and Zinsser; "Veterinary Bacteriology", Buchanan.

303 **Household Bacteriology.** Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Chem. 101, 102.
Required: Home Economics.
Elective: Science and Literature.

This course is given for the students in home economics and as far as possible is made to apply to the work in which these students are most interested.

Text: "Household Bacteriology", Buchanan.

304 **Sanitary Science.** Class 2 hours, laboratory 4 hours. Credit 3⅓.
Prerequisite: Bact. 303.

Required in Demonstration Agents' work.

This work is designed to meet the needs of students preparing themselves for leadership as demonstration agents in agricultural work. Both the class and laboratory work will be selected with the idea of having the students see the application of the course to problems as they affect the home, school, community, etc.

311 **Dairy Bacteriology.** Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Bact. 310.
Required: Students in dairying.
Elective: All agricultural students, and Science and Literature.

A study of the bacteriology of milk and of milk products. Special attention will be given to sanitation and animal diseases as they may affect the milk supply.

Text: "Dairy Bacteriology", Russell and Hastings.

402 **Sanitary Science.** Class 3 hours. Credit 3.

Prerequisite: None.
Required: Civil Engineering.
Elective: None.

This course is given especially to students in civil engineering. The course deals largely with water supply, sewage disposal and the different methods of treating sewage. Time is given at the beginning of the course to familiarize the student with the general nature and relationship of bacteria to disease.

Text: Bergey on "Sanitation"; Winslow on "Sewage Disposal".

403 **Technical Bacteriology.** Class 3 hours, laboratory 4 hours. Credit 4⅓.

Prerequisite: Bact. 310.
Required: Science and Literature.
Elective: School of Education.

This course is a continuation of 310 and deals more particularly with the relation of bacteria to disease processes. Work is offered in the production of vaccines, laboratory diagnosis, etc.

Text: Bouldon, Citron, Simon.

404 **Advanced Work in Immunity.** Class 3 hours, laboratory 4 hours. Credit 4⅓.

Prerequisite: Bact. 310 and 403.
Required: Science and Literature.

Elective: Education.

This semester's work completes a year's work in technical bacteriology in which the student is given theoretical and practical training in work along sero-diagnostic and immunological lines. This course is intended to fit a student for taking up original problems in the subject in the capacity of an investigator or in the ever-broadening field of municipal work.

Text: Simon, Emery, Zinsser.

405 Agricultural Bacteriology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Bact. 310.

Elective: Agriculture and Science and Literature.

This course is offered for the benefit of science students and the students of agriculture who may desire to familiarize themselves to some extent with the importance of bacterial activities to certain phases of agricultural work. Some industrial applications of bacteriology should be understood by students who have interested themselves in the science.

Physiology

202 Advanced Physiology. Class 3 hours, laboratory 2 hours. Credit 3⅔.

Prerequisite: Secondary School physiology and Freshman chemistry.

Required: Home Economics.

Elective: Science and Literature.

Particular attention is given to the physiology of nutrition and to hygiene.

Text: "Human Body", Martin.

301 Comparative Physiology. Class 2 hours. Credit 2.

Prerequisite: Vet. Sci. (Anatomy) 201.

Required: Animal Husbandry.

Elective: All agricultural students.

Special attention will be given to human as well as animal physiology. Normal functions of such organs of the animal body as are actively concerned in feeding, including digestion, and organs of elimination, as affect nutrition.

Text: "Physiology", Patterson.

Zoology

102 Economic Zoology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Required: Home Economics.

This course is a general survey of the animal kingdom with emphasis on economic value.

Text: "Economic Zoology", Daugherty.

201 General Zoology. Class 3 hours, laboratory 4 hours. Credit 4⅓.

Required: General Science.

Elective: General Literature, Education, Commerce and Marketing.

This course is designed to give an outline knowledge of the animal kingdom, as well as of the important biological laws. Representative types of the important phyla will be studied in the laboratory. The economic species and the principles underlying development will be especially emphasized.

Text: "College Zoology", Hegner.

207 General Zoology (for Agricultural students). Class 2 hours, laboratory 4 hours. Credit 3⅓.

Required: All agricultural students.

This course is similar to Zoology 201, but adapted to the needs of the students in agriculture.

210 Vertebrate Zoology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Zool. 201 or equivalent.

Required: General Science.

Elective: Education, Commerce and Marketing.

This course is primarily comparative anatomy in the laboratory work, but the lectures will deal with classification, distribution, etc., of the vertebrates with special emhasis on Oklahoma species.

401 General Biology. Class 3 hours, laboratory 2 hours. Credit 3⅔.

Prerequisite: Zool. 201.

Required: General Science.

Elective: General Literature, Education, Commerce and Marketing.

This course deals with the problems of variation, inheritance and evolution.

Text: "Evolutionary Biology", Dendy.

402 Embryology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Zool. 201 or equivalent.

Required: Veterinary Medicine.

Elective: General Science, Education, Commerce and Marketing.

This is a study of the development of vertebrates, using the chick and pig as types.

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DEPARTMENT OF BOTANY

CHAS. O. CHAMBERS, *Professor*
C. D. LEARN, *Assistant Professor*

In an agricultural college, botany is a fundamental study. Agriculture has to do chiefly with plants and botany deals with plants in their broadest aspect; their relations to soil, climate and culture. It deals with the origin and distribution of plants in general; the origin and improvement of our cultivated plants; the laws of breeding and selection by which they have been brought to a higher state of perfection.

Plant physiology aims to show the relation of plant life to chemistry and biological laws. Plant pathology acquaints us with the chief diseases which threaten our crops and play havoc in orchard, field and garden.

This department, located on the third floor of Morrill Hall, has classroom and laboratories well equipped to accommodate classes in all lines—microscopes, microtomes and reagents for classwork, charts and balopticon for lecture room. An extensive

herbarium of native Oklahoma species is being constantly increased.

The aim and purpose is to afford:

1. General culture and acquaintance with plant life.
2. A basis for agricultural and horticultural studies.
3. Training for those who expect to teach botany or agriculture in secondary schools.

SUBJECTS

101 General Botany. Class 2 hours, laboratory 4 hours. Credit 3⅓.
Elective: Education, General Science and Literature.
The principles of plant structure studied from the standpoint of function; an introduction to physiology, genetics and ecology.
Text: College Botany, Gager.

102 General Botany. Class 2 hours, laboratory 4 hours. Credit 3⅓.
Prerequisite: Bot. 101.
General morphology of the principal natural groups of plants from the standpoint of evolution from lower to higher forms, their structure, habits and relationships; an introduction of systematic botany.
Text: College Botany, Gager.

106 Agricultural Botany. Class 2 hours, laboratory 4 hours, Credit 3⅓.
Required of all agricultural students.
Fundamental principles of Botany with emphasis on the practical application of these principles.
Text: Botany for Agricultural Students, Martin.

201 Agricultural Botany. Class 2 hours, laboratory 4 hours. Credit 3⅓.
Required of all agricultural students.
A continuation of Botany 106 with a survey of the plant groups in which the feed and food plants are found.
Text: Same as for Botany 103, Martin.

206 Systematic Botany. Class 1 hour, laboratory 6 hours. Credit 3.
Prerequisite: Bot. 101, 102 or 104.
A taxonomic study of flowering plants.
Text: Manual Botany, Gray (Seventh Edition).

303 Genetics. Class 3 hours. Credit 3.
Prerequisite: Bot. 102 or 206, or Zool. 201.
A study of the principles of variation, selection, heredity, and their application to animal and plant breeding.
Text: "Heredity", Locks.

304 Plant Physiology. Class 2 hours, laboratory 2 hours. Credit 2⅔.
Prerequisite: Bot. 101, 102 or 104.
A study of the vital processes in the higher plants.
Text: "Plant Physiology", Duggar.

305 Pathology. Class 2 hours, laboratory 4 hours. Credit 3⅓.
A study of fungous diseases, both host and parasite.
Text: "Fungous Diseases of Plants", Duggar.

401 Advanced Systematic Botany. Class 1 hour, laboratory 6 hours. Credit 3.
Prerequisite: Bot. 206.
A continuation of 206, with special emphasis on economic groups.
Text: "Manual of Botany", Gray (Seventh Edition).

410 Teaching of Botany. Class 1 hour. Credit 1.
For those who expect to teach botany.

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DEPARTMENT OF CHEMISTRY

HILTON IRA JONES, *Professor*
ARTHUR G. WILLIAMS, *Assistant Professor*
M. L. WHITSITT, *Instructor*
ROBERT DUBOIS, *Graduate Assistant*
TRISSIE YOUNG, *Assistant*

The purpose of the instruction in the Department of Chemistry is four-fold:

1. To meet the present demand for chemical engineers and trained analysts, and to lay a broad foundation for graduate study and a career in chemistry.

2. To prepare teachers of chemistry for the secondary schools.

3. To offer such courses in chemistry as are required by the various schools of the College.

4. To give a comprehension and appreciation of the scientific method and those fundamental processes so essential to any understanding of the phenomena of nature and the progress of human industry, in order that the study may be worth while if simply taken for its cultural value.

The Department of Chemistry, beginning with 1919-20, will be housed in a new, modern laboratory erected and furnished by the Board of Agriculture at a cost of some $120,000.00. This furnishes approximately 14,000 square feet of floor space, providing lecture auditorium, small classrooms, separate laboratories for each of the chief branch of chemistry, library, storerooms, offices, rooms for research, and all the oppurtenances found in the best modern laboratories. The entire furnishings and equipment will be up to the standard of the building.

SUBJECTS

101 General Inorganic Chemistry. Class 3 hours, laboratory 4 hours. Credit 4⅓.

Prerequisite: Elementary physics.

Required of all Freshmen, and prerequisite for all other courses in the department.

A course dealing with the fundamental principles of the science. Lectures, written exercises and laboratory work.

102 General Inorganic Chemistry. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Chem. 101 or equivalent.

Required of all Freshmen.

A continuation of course 101, mainly devoted to the metals, and the beginnings of qualitative analysis.

201 Qualitative Analysis. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Chem. 102 or its equivalent.

Required of Sophomores in the courses in General and Exact Science in the School of Science and Literature, and in the course in chemical engineering. A course in both acid and basic analysis, with special emphasis placed upon the industrial phases of analysis and the fundamental theories underlying the same. Lectures, written exercises and laboratory work.

205 Elementary Organic Chemistry. Class 2 hours, laboratory 3 hours. Credit 3.

Required of all Sophomores in the Schools of Agriculture and Home Economics.

A course dealing with the chief types of organic compounds and their relation to foods and feeding stuffs, and physiological processes. Lectures, written exercises and laboratory work.

206 Quantitative Agricultural Chemistry. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Chem. 201 or 207.

Required of Sophomores in the School of Agriculture.

An elementary study of the simpler quantitative methods involving the care and use of the analytical balance, exercises in the gravimetric and volumetric analysis of pure substances of known composition; the preparation and standardization of volumetric solutions; constant practice with equations representing the reaction employed, and with the calculations based on them. The composition of the atmosphere and its relation to plant growth, the analysis of soils, fertilizers and plant products. Lectures, reports, written exercises and laboratory work.

207 Qualitative Analysis. Class 1 hour, laboratory 3 hours. Credit 2.

Prerequisite: Chem. 102.

Required of Sophomores in the Schools of Agriculture and Home Economics.

A briefer course dealing with the same subject matter and employing the methods indicated under 201.

208 Elementary Food Chemistry. Class 1 hour, laboratory 6 hours. Credit 3.

Prerequisite: Chem. 205, 207.

Required of Sophomores in the School of Home Economics.

A course dealing with the quantitative methods employed in the study of the materials immediately related to daily life. Air, water and the more common food materials are made the subject of numerous experiments to illustrate their composition and properties. The estimation of chemical compounds in food products is especially emphasized.

210 General Quantitative Analysis. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Chem. 201.

Required of Sophomores in the courses in General and Exact Science in the School of Science and Literature, and in the course in chemical engineering.

A general study of the fundamental analytical methods, both gravemetric and volumetric, but without reference to any specific industry. Methods as in 206.

304 Advanced Quantitative Analysis. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Quantitative analysis and organic chemistry.

Open to all who are prepared to handle the work.

A course designed to familiarize the student with the analytical methods employed in commercial laboratories and required in all advanced work in chemistry.

305 General Organic Chemistry. Class 3 hours, laboratory 7 hours. Credit 5⅓.

Prerequisite: Chem. 201 or its equivalent. Quantitative work is desirable, though not absolutely essential.

A systematic study of the general principles of organic chemistry as illustrated by the discussion and preparation of the more important class types of both the aliphatic and aromatic series of compounds. Special attention is drawn to those compounds that have commercial importance, as well as purely scientific interest, thus enabling the student to see the relationship between this science and other fields of knowledge.

310 Food Analysis. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: Organic chemistry and quantitative analysis.

Elective for Juniors and Seniors in the School of Science and Literature, and to all prepared to take the work.

The qualitative and quantitative analysis of food materials; the detection and estimation of impurities, adulterations, coloring matter, etc., in accordance with the methods employed in the State and Federal Government service.

311-312 Advanced Organic Chemistry. Class 3 hours, laboratory 4 hours. Credit 4⅓.

Prerequisite: Quantitative analysis.

Required of Juniors in the courses in General and Exact Science in the School of Science and Literature, and in the course in chemical engineering.

A more extended and systematic treatment of the compounds of carbon than is possible in Chem. 305, together with appropriate dis-

cussions of the theories of reactions. The laboratory work includes a study of the synthesis and analysis of a large number of carbon compounds of interest in the arts and industries, including dyestuffs, perfumes and drugs.

313-314 Physiological Chemistry. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: Analytical and organic chemistry.

Elective for Juniors and Seniors in the Schools of Science and Literature and of Home Economics, and offered to all students prepared to take the work.

A study of the synthetic and analytical reactions that accompany the physiological changes in animals and plants. The chemical properties of food and body substances and their general specific characteristics; the behavior or enzymes and their functions; the changes that take place in digestion, assimilation and elimination are among the topics considered.

321 Geology. Class 2 hours. Credit 2.

Prerequisite: General chemistry.

Required of Sophomores in the course in general literature, and Seniors in the course in Exact Science in the School of Science and Literature.

An introductory course including an elementary study of constructive and destructive forces, the origin of the soil, the materials of the earth's crust, and the manner of their occurrence; the chemical and mechanical changes brought about by geological agencies, and the surface features to which they give rise.

322 Determinative Mineralogy and Blowpipe Analysis. Class 1 hour, laboratory 4 hours. Credit 2⅓.

Prerequisite: Chem. 201, 207.

Required of Juniors in the Department of Civil Engineering.

A study of the physical properties of typical mineral species, and of the dry reactions of the elements, with their application to the identification of unknown minerals.

327 Petroleum Technology. Class 3 hours, laboratory 6 hours. Credit 5.

Prerequisite: General chemistry, organic and analytical chemistry are highly desirable. Students must consult the instructor before registering for this course.

Offered to all students prepared to follow the work.

A study of the origin, occurrence and physical properties of petroleum, and of the laboratory methods for the estimation of the value of crude oil and the various products obtained by refining it, including specific gravity determinations, distillation methods, and special tests for acidity, sulphur, parafin, asphalt, etc.; a discussion of the gas industry, and laboratory work in gas analysis.

401 Advanced Inorganic and Physical Chemistry. Class 3 hours, laboratory 6 hours. Credit 5.

Prerequisite: General chemistry and two semesters of quantitative analytical work.

Required of Seniors in the course in Exact Science in the School of Science and Literature, and elective for others prepared to take the work.

A review of the theories considered in the more elementary

courses, together with many others relating to thermo chemistry, reaction, velocity and equilibrium, with special reference to their application to the industries.

402 Physical Chemistry. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Organic chemistry. Quantitative. Course 401 is especially recommended.

Offered to all students prepared to take the work.

A discussion of laws of gases, the kinetic theory, the phase rule, optical activity, and related topics; with laboratory practice in the determination of vapor densities, molecular weights by the freezing and boiling point methods, calculation of the degree of ionization, estimation of optical activity.

A course presenting selected technical methods employed in—

(a) Gas Analysis
(b) Iron and Steel Analysis
(c) Fuel Analysis
(d) Wet and Fire Assaying
(e) Water Analysis.

405-406 Industrial Chemistry. Class 3 hours, laboratory 9 hours. Credit 6.

Prerequisite: Chem. 304-305.

Required of Seniors in chemical engineering, and offered to all having the necessary preparation.

Lectures, recitations and conferences dealing with the applications of chemistry to the problems of manufacture, with laboratory practice in the analyses of both raw materials and factory products.

411-412 Special Methods in Quantitative Analysis. Class 1 hour, laboratory 6 hours. Credit 3.

Prerequisite: Organic chemistry. Quantitative.

Elective for Juniors and Seniors in the School of Science and Literature. Entrance of others to this course is only upon personal arrangement with the professor in charge.

420 Teaching of Chemistry. Class 1 hour. Credit 1.

Required of Seniors in the course in exact science in the School of Science and Literature, and elective for all others who have sufficient knowledge of the subject matter under discussion.

A series of conferences in which the methods and procedure in teaching general chemistry will be discussed in detail. Selections of subject matter for classwork and laboratory exercises ,apparatus and equipment for class demonstrations, relation of class and laboratory work, choice of text and reference books, etc.

421-422 Master's Thesis. Conference 1 hour, laboratory 10 to 20 hours. Credit in accordance with the amount of work done.

The work here indicated is of the nature of investigation, and is chiefly experimental, with the necessary reading and conferences. It is intended to familiarize the student with the methods used in independent work, and with an appreciation of the aims and objects of work in chemistry.

423-424 Journal Seminar. 1 hour per week. Credit 1.

Required of all Seniors in chemical engineering, and of graduate students. All members of the staff are expected to attend. Reports on recent articles in American and foreign magazines and discussion of chemical advances.

DEPARTMENT OF CHEMICAL ENGINEERING

HILTON IRA JONES, *Professor*
ARTHUR G. WILLIAMS, *Assistant Professor*

This course in chemical engineering has been arranged to meet the needs of an increasing number of students who wish to prepare themselves for engineering work that depends wholly or in part on chemical or metallurgical processes. The purpose of the course is to provide the young engineer with a broad and well founded knowledge of both chemistry and mechanical engineering so that he may be prepared to take up the work of assisting in the design and erection of machinery used in such manufacturing plants as those indicated. But it is the aim of the work also to develop in him the ability to see the bearing of a proposition from the combined viewpoint of the chemist and the engineer, which is essential if one is to appreciate the fact that commercial success in manufacturing depends on the application of scientific principles.

In addition to a knowledge of the principles on which the design, construction and maintenance of a manufacturing plant rests, there must be control of the raw material used and the products turned out. No efficient control can be had except through chemical analysis, and on this account the study of analytical chemistry is especially emphasized. The courses in chemistry and in mechanical engineering are so arranged that the work of the first two years is fundamental in character and furnishes a suitable foundation for one who would become either a chemist or an engineer; while that of the last two years, though it requires all the essential work for either, allows the student some choice of subjects, depending on the interests he has developed up to that time.

The equipment of both the chemical laboratory and the Department of Mechanical Engineering, described elsewhere in this catalog, is available for this course.

Regular work is supplemented from time to time by the analy-

ses of oil and similar products sent in from different parts of Oklahoma and elsewhere.

For the outline of the courses, see "Courses in the School of Engineering.

For a description of the courses in chemistry, see the Department of Chemistry.

DEPARTMENT OF DRAWING AND ART

———————, *Professor*
DAISY D. MCCOOL, *Instructor*
ELLA JACK, *Instructor*

The aim of the courses in this department is to give training that is necessary for use in the practicum subjects of the College.

In the Freshman year the drawing is so planned as to correlate with coordinate studies, giving the elementary principles and their application in matters of everyday life.

Completed projects in art work that meet a certain standard of excellence shall be placed by students at the disposal of the institution for a period of one year.

SUBJECTS

101 Drawing. Practice 4 hours. Credit 1⅓.

Freehand drawing in accordance with fundamental principles of perspective and laws governing correct drawing; composition and color harmonies. Work includes the representation from observation of object and nature motifs, and involve the use of pencil, crayons and charcoal.

102 Drawing. Practice 4 hours. Credit 1⅓.

Prerequisite: Draw. 101.

Freehand drawing from object and nature motifs continued, introducing the use of water colors. Freehand lettering is exercised during this semester.

103 Drawing. Practice 4 hours. Credit 1⅓.

A course of instruction required of students enrolled in Education. Freehand drawing from object and nature motifs, involving the use of pencil, crayon and water color, including lectures and assigned work, dealing with problems of presenting art instruction in secondary and grammar schools.

104 Drawing. Practice 4 hours. Credit 1⅓.

Prerequisite: Draw. 103.

Continuation of Drawing 103. Applied design to various materials, suitable for public school work. Blackboard drawing, freehand cutting of papers, elementary poster illustration. Lectures and assigned work dealing with the history of art.

105 Drawing. Practice 4 hours. Credit 1⅓.

A course of instruction required of student enrolled in the School of Home Economics. To teach drawing in accordance with fundamental principles of perspective and laws governing correct drawing, composition and color harmonies, from object and nature motifs. Work includes instruction and practice of freehand lettering. Mediums used, pencil, crayon and charcoal.

106 Drawing. Practice 4 hours. Credit 1⅓.

Prerequisite: Draw. 105.

Required of students enrolled in the School of Home Economics. To teach theory and practice of design in the expression of form and color ideas, including various kinds of constructive arrangements and decoration, introducing the use of water colors.

309 Art—Commercial Art. Practice 4 hours. Credit 1⅓.

Prerequisite: Draw. 101-102 or 105-106.

To teach various kinds of lettering applied to posters, and the principles of commercial and pictorial compositions, involving the use of pencil, charcoal and water colors.

310 Art—Commercial Art. Practice 4 hours. Credit 1⅓.

Prerequisite: Art 309.

To teach color application in the development of pictorial and commercial compositions. Mediums: Charcoal, water color and pen and ink.

403 Art—Artcraft. Practice 4 hours. Credit 1⅓.

Prerequisite: Art 101 or 103 or 105.

To teach elementary work in cardboard construction, bookmaking, bookbinding, and application of design.

404 Art—Artcraft. Practice 4 hours. Credit 1⅓.

Prerequisite: Art 403.

To teach embodiment of structural design, including projects in textile weaving, basketmaking, leather construction and applied color.

405 Art—Pottery. Class 4 hours. Credit 1⅓.

Prerequisite: Draw. 101 or 103 or 105.

To teach the study of form and construction with clay as the medium. Pottery comprises the making of objects such as bowls, vases, jars and other shapes.

406 Art—Pottery. Class 4 hours. Credit 1⅓.

Prerequisite: Art 405.

Continuation of Art 405, involving the development of original projects in pottery and modeling.

408 Art—Art Appreciation. Class 1 hour. Credit 1.

A lecture and reading course relating to knowledge and appreciation of art to life. Course includes study of paintings as a source of pleasure in the home and civic buildings.

409 Art—Porcelain Decoration. Practice 4 hours. Credit 1⅓.

Prerequisite: Draw. 101 or 103 or 105.

Relating to fundamneal principles of design and color with techique of china decoration.

410 Art—Porcelain Painting. Practice 4 hours. Credit 1⅓.

Advanced work in ceramics.

DEPARTMENT OF ENGLISH

N. W. ROCKEY, *Professor*
B. H. VAN DYKE, *Instructor*
STELLA PRIEST, *Instructor*
GRACE MOUNTCASTLE, *Instructor*

A number of improvements have been made recently which enable the Agricultural and Mechanical College to keep pace with the constantly increasing attention that is being paid to English in other institutions. New courses have been added to meet the special needs of students, and a very wide selection of courses is now made possible. Constant additions of books for reference and supplementary reading are provided by the library.

The aim of the department is two-fold: (1) To create such a love in the student for the best literature that he shall continue to read and enjoy it after his school days are over; (2) to teach the student to express himself clearly and forcibly in writing and speaking.

SUBJECTS

101, 102 College. Class 3 hours. Credit 3.

Prerequisite: Preparatory English.

This course consists principally of the study and practice of the principles of composition. A thorough knowledge of the principles of grammar is essential. Frequent themes of various nature are required and a study of classics is introduced. Emphasis is placed upon oral composition and individual conference and correction. Students are required to attain a high standard of self-expression. All students must have access to an unabridged dictionary and are urged to possess a good standard dictionary.

201 Advanced Composition. Class 2 hours. Credit 2.

Prerequisite: 101, 102.

An advanced course in argumentative and expository types of writing, supplemented by a study of examples taken from literature.

202 Advanced Composition. Class 2 hours. Credit 2.

Prerequisite: 101, 102.

An advanced course in descriptive narrative types of writing, supplemented by a study of examples taken from literature.

203 News Writing. Class 2 hours. Credit 2.

Prerequisite: 101, 102.

A study of the elements of news-writing and style form the basis of the work. Proper attention is given to writing leads, structure of news stories, reporting and gathering of news, interviewing, reporting speeches, and other forms of elementary journalism.

204 Magazine and Feature Writing. Class 2 hours. Credit 2.

Prerequisite: 101, 102, 203.

This course takes up the problem of turning scientific and technical information into practical articles for publication in magazines. Practical work in editing and proofreading.

205, 206 Current Literature. Class 2 hours. Credit 2.

Prerequisite: 101, 102.

A course offered as an aid to more intelligent magazine reading and to stimulate an interest in the best current literature.

Text: Current magazines and books.

207, 208 English Literature. Class 3 hours. Credit 3.

Prerequisite: 101, 102.

A general survey. First semester work extends to the early Romantic Movement; second semester work, from Wordsworth to Stevenson. The principal study is of the literature itself, but enough attention is given to the life of the author and the times in which he lived to enable the student to appreciate his work and influence. It is an introduction to literature and literary criticism, and, although it is elective to advanced students, those electing it early in their course will be enabled to pursue the more advanced courses with greater profit and success.

209 Technical Writing. Class 2 hours. Credit 2.

Prerequisite: 101, 102.

This is an advanced course in composition adapted to the interests and needs of engineering students.

301, 302 Publicity and Bulletin Writing. Class 2 hours. Credit 2.

Prerequisite: 203, 204.

An advanced course in writing for actual publication. Publicity work is undertaken in connection with the course. Membership is limited and subject to the approval of the instructor.

***303, 304 American Literature.** Class 2 hours. Credit 2.

Prerequisite: 101, 102.

This course covers a history of American literature in a more intensive manner than is possible in secondary schools. Attention will be given to literary periods and to the writings of the lesser as well as the greater American authors. Some comparison is made with English literature. Poetry occupies the first semester, prose the second. Offered this year.

***305, 306 English Language.** Class 2 hours. Credit 2.

Prerequisite: 101, 102.

A college course in the structure of language, and aimed to advance and deepen the student's knowledge of grammar. Some attentions is given to the historical development of forms and to word study. Not offered this year.

307, 308 Bible Literature. Class 2 hours. Credit 2.

Prerequisite: 101, 102.

A literary study of the Bible.

401 Carlyle and Ruskin. Class 3 hours. Credit 3.

Prerequisite: Eng. 101, 102.

The assignment in this work varies from year to year. This year the following will be studied: Carlyle's "Sartor Resartus"; prose writings of other essayists, including Ruskin. Although not a prerequisite, students should have had English 207 and 208.

402 Victorian Poets. Class 3 hours. Credit 3.

Prerequisite: Eng. 101, 102.

This course is designed to give students a comparatively thorough knowledge of one of the master poets of the Nineteenth Century. This does not exclude the consideration of other authors as an aid to the study of the author chosen. This year Tennyson has been selected for intensive study. Although not a prerequisite, students should have had English 207, 208.

403 Romantic Movement in English Poetry. Class 3 hours. Credit 3.

Prerequisite: Eng. 101, 102.

About one-fourth of the time is devoted to Wordsworth, the remainder to Coleridge, Byron, Shelley and Keats. This course is supplemented by lectures and collateral readings, tracing the rise and development of the Romantic Movement. The work is based upon the complete work of each of the authors studied. By clubbing together the students have purchased the five volumes at a reasonable rate. Although not a prerequisite, students should have had English 207, 208.

404 Shakespeare and the Drama. Class 3 hours. Credit 3.

Prerequisite: Eng. 101, 102.

A study is made of the rise and development of the English drama, of the Elizabethan stage, and the conditions under which the great dramatist wrote. Specimens of early English plays and Shakespeare's plays are reported upon, and some attention is given to the later drama.

***405, 406 The Novel.** Class 2 hours. Credit 2.

Prerequisite: Eng. 101, 102.

In this course the development of the English novel into definiteness of form and purpose receives due emphasis, and the writers studied are treated as representatives of the life, the thought and literary movements of the times in which they lived. The earlier novels occupy the first semester, the later the second. Not offered this year.

***407, 408 Masterpieces.** Class 2 hours. Credit 2.

Prerequisite: Eng. 101, 102.

An intensive study of masterpieces to be selected by the instructor. This course serves those who wish to review and supplement their reading for high school teaching, as well as those who wish to increase their knowledge of great masterpieces. Offered this year.

*Only two of the following courses are offered in each year: Courses 303-304, 305-306, 405-406, 407-408. Courses 303-304 and 305-306 are offered in alternate years. Courses 405-406 and 407-408 are offered in alternate years.

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DEPARTMENT OF FOREIGN LANGUAGES

A. A. ARNOLD, *Professor in Charge*
CARL J. FARNSWORTH, *Instructor*

The College offers a three-year course in modern and ancient languages.

The Secondary School of Oklahoma A. and M. College requires one year of some foreign language of all students. Stu-

dents who are preparing for the School of Engineering must take two years of a foreign language.

The student is allowed to elect that course for which he is prepared.

As to which courses are required and which elective, see the courses of study outlined for each school.

SUBJECTS

Spanish

101 Elementary Course. Class 3 hours. Credit 3.

Mastery of the forms of grammar; careful treatment of the pronunciation; emphasis on the most important irregular verbs.

Text: "A Brief Spanish Grammar", Ingraham-Edgren; "Elementary Spanish-American Reader", Berge-Soler and Hatheway.

102 Elementary Course. Class 3 hours. Credit 3.

Prerequisite: Course 101.

Emphasis on irregular verbs and most common idioms. Reading of about two hundred pages of modern prose.

Text: Same as for 101.

201 Intermediate Course. Class 3 hours. Credit 3.

Prerequisite: Spanish 102.

Advanced prose composition; reading of standard authors.

Text: "Composition", Waxman's "A Trip to South America"; Isaac's "Maria", by Keniston.

202 Intermediate Course. Class 3 hours. Credit 3.

Prerequisite: Spanish 201.

Continuation of Course 201.

Text: Some compositions as for Spanish 201. Spanish magazines. Alaracon's "El Capitan Veneno".

301 Advanced Course. Class 3 hours. Credit 3.

Prerequisite: Spanish 202.

Letter-writing and conversation.

Texts vary.

302 Advanced Course. Class 3 hours. Credit 3.

Prerequisite: Sp. 301.

A continuation of Course 301.

Texts vary.

French

101 Elementary Course. Class 3 hours. Credit 3.

Essentials of French grammar; the more common irregular verbs. Careful training in pronounciation.

Text: Fraser and Squair's Shorter Course.

102 Elementary Course. Class 3 hours. Credit 3.

Prerequisite: Fr. 101.

Continuation of Course 101.

Reading of about three hundred pages of modern prose. Emphasis on irregular verbs, idioms and translation of easy French at sight.

Text: Fraser and Squair's Shorter Course; Francois and Giraud's Simple French; Labiche's Le Voyage de Monsieur Perichon.

201 Intermediate Course. Class 3 hours. Credit 3.
Prerequisite: Fr. 102.
Advanced prose composition, reading of standard authors.
Text: Francois' Advanced Prose Composition; Merimee's Colomba; Beaumarchais' Lr Barbier de Seville. Collateral readings.

202 Intermediate Course. Class 3 hours. Credit 3.
Prerequisite: Fr. 201.
Continuation of Course 201.
Text: Francois' Advanced French Composition; Victor Hugo's Les Miserables; Loti's Pecheur d' Islande.

203 Scientific French. Class 2 hours. Credit 2.
Prerequisite: Fr. 102.
Text: Bowen's Elementary Scientific Reader.

204 Scientific French. Class 2 hours. Credit 2.
Continuation of Course 203.
Text: French scientific magazines.

301 Advanced Course. Class 3 hours. Credit 3.
Prerequisite: Fr. 202.
A careful study of the tragedies of Racine and Corneille. Collateral readings.
Text: Corneille's Le Cid, Horage, etc.

302. Advanced Course. Class 3 hours. Credit 3.
Prerequisite: Fr. 301.
A study of the drama of the Eighteenth Century. Collateral readings.
Text: Maivaux's Comedies; Voltaire's Zaire.

Latin

The Department of Foreign Languages meets the required Latin demands of law schools, medical schools, and the needs of prospective teachers of Latin in high schools. Upon petition and evidence of proper preparation, any desired Latin course will be given.

101 Caesar. Class 3 hours. Credit 3.
Prerequisite: One year in Latin.
Three books of the Gallic War are read. Methods of translation are carefully taught until the student reaches the point where diligence alone will give mastery. Constant drills in forms, syntax and pronunciation.
Any text in Caesar.

102 Caesar. Class 3 hours. Credit 3.
Prerequisite: Latin 101.
Two more books of the Gallic War are read. Drill in sight-reading. One hour a week is devoted to prose composition.
Text: "Composition", Allen and Phillips.

201 Cicero's Letters and Orations. Class 3 hours. Credit 3.
Prerequisite: Latin 102.
A reading course with special attention to the life and personality of Cicero.

202 Cicero's Essays. Class 3 hours. Credit 3.
Prerequisite: Latin 201.
A study of the life, personality and philosophy of Cicero. Study of Cicero's style and prose compositions.
Text: Cicero's "De Senectute"; "De Amicitia".

303 Virgil's Aeneid. Class 3 hours. Credit 3.
Three books will be read. This will include a study of Latin poetry, especially the scansion of dactylic hexameter.

304 Horace. Class 3 hours. Credit 3.
A continuation of Latin poetry. The Odes from Horace will be used as a basis.

403 Tacitus' Germania and Agricola. Class 2 hours, composition 1 hour. Credit 3.

404 Livy (Books XXI and XXII). Class 2 hours, composition 1 hour. Credit 3.

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DEPARTMENT OF HISTORY

S. A. MARONEY, *Professor*

The study of history has two distinct but not incompatible aims. One of these is personal culture, the other is practical vocational value. Each of these standards is sought in both method and matter in different proportions to suit the various courses of the Agricultural and Mechanical College. The number of courses offered is limited by the technological character of the curricula. The newer conceptions of history prevail which treat the subject more for thought than for memory of facts, minimize the details of wars, and stress ethical, political and industrial features. Special adaptations are made to reinforce the College work in agriculture and home economics. The College library contains many valuable sets of reference works, which are being added to from time to time.

The department has charge of history in the Secondary School. For courses in Hist. 21, 22, 31, 32 and 41, see Secondary School.

SUBJECTS

205-206 History of England. Class 3 hours each. Credit 3.
Required general literature course in School of Science and Literature; history and literature course in School of Education.
205 to the Stuarts. Rise of English national form. Anglo-Saxon

institutions, advancement in democracy as roots of modern institutions.

206 British colonial, naval and commercial growth. Recent British social legislation. Church. Background of English literature. The War of Nations.

306 Industrial History of the United States. Class 3 hours. Credit 3.

Required: Junior home economics, general science, exact science. Alternate with Edu. 412.

Elective: Schools of Education, Commerce and Marketing, et al.

Economic side of national growth emphasized rather than political. History of different industries, periods and movements, leading to survey of conditions of today. Adaptations to home economics.

307-308 History of the United States. Class 3 hours each. Credit 3.

Prerequisite: Am. Hist. 31 and 32 (Government) in Secondary School, or equivalent.

Required in general literature course of School of Science and Literature; history and literature course in School of Education.

307 to presidency of Andrew Jackson. Colonial period as preparatory to nationality. Steps toward union, the dominant theme in the Revolution; critical period, and adoption and operation of the Constitution. Social, industrial and educational features given due but secondary consideration.

308 Continuation of 307 to date. Political history basic. Financial and social phases not slighted. Enlargement of governmental activites, state and national, emphasized as cahracteristic of recent years. Aims to give insight into present-day problems. Current history utilized to give reality to past and to keep pace with the present.

401-402 Modern Europe. Class 3 hours each. Credit 3.

Prerequisite: Anc. Hist. 21 and Mod. Hist. 22.

Should not be taken before 205, 206, 307, 308. Department may grant exception in part.

Required: General literature, School of Science and Literature; history and literature course, School of Education.

401 from 1500 to 1815. Sketch some earlier large events. The rise of the nations, the papacy, feudalism, rennaissance and reformation, French Revolution.

402 continuation of 401 from 1815 to present. Political and social development. Traces complex conditions leading to War of Nations. Deals with large questions of nationalism, democracy and internationalism.

DEPARTMENT OF MATHEMATICS

CARL GUNDERSON, *Professor*
R. E. HARTSOCK, *Associate Professor*
JOHN H. ANDREWS, *Assistant Professor*

Work in college mathematics is required of all students in the School of Engineering, and in the divisions of general and exact science of the School of Science and Literature.

Courses 105, 108, 207, 208 are required of engineers, 205 of civil engineers, 105, 108 and 204 in general science, 105, 108, 204,

207, 208, 301 and 302 in exact science, 109 and 110 in Education. The other courses are elective or optional.

SUBJECTS

105 College Algebra. Class 4 hours. Credit 4.

Prerequisite: One and one-half years algebra and one year plane geometry.

Variables and functions; binomial theorem; progressions; complex numbers; logarithms; limits; permutations and combinations.

Text: Reitz and Crathorne.

108 Plane Trigonometry. Class 3 hours. Credit 3 .

Prerequisite: Plane Geom. and Math. 105.

The development and use of trigonometric functions; relations between the functions; logarithms; solutions of triangles; application to practical problems throughout the course.

Text: Ashton and Marsh.

Math. 109 Algebra. Class 3 hours. Credit 3.

Prerequisite: One year algebra and one year plane geometry.

Exponents, complex fractions; radicals; imaginary numbers; solution of equations; graph of linear and quadratic equations; simultaneous equations involving quadratics; variation; logarithms.

Text: Slaught and Lennes, First Principles of Algebra.

Math. 110 Plane Trigonometry. Class 3 hours. Credit 3.

Prerequisite: Math 109.

Teachers course. The development and use of trigonometric functions; relations between the functions; logarithms; solution of triangles; application to practical problems throughout the course.

Text: Ashton and Marsh, Trigonometry.

207 Analytical Geometry and Calculus. Class 5 hours. Credit 5.

Prerequisite: Math. 108 and Solid Geom.

Cartesian and polar coordinates; equations and properties of straight lines and curves; introduction to analytical geometry of three dimensions; introduction to calculus; limits; infinitesimals; rates; maxima and minima; partial differentiation.

Text: Brief Course in Analytic Geometry, Tanner and Allen; Calculus, March and Wolff.

208 Calculus. Class 5 hours. Credit 5.

Prerequisite: Math. 207.

Change in variable; integration; application of integration; multiple integrals; curvature; properties of curves; infinite series; Taylor's theorem, hyperbolic functions, indeterminate forms.

Text: Calculus, March and Wolff.

204 Astronomy. Class 2 hours. Credit 2.

Prerequisite: High School Alg. and Geom.

The celestial sphere; reference lines and astronomical measurements; the solar system; laws of motion; evolution; stars; comets; nebulae; structure of the universe.

205 Spherical Trigonometry. Class 1 hour. Credit 1.

Prerequisite: Solid Geom, and Math 108.

Right and quadrantial triangles; oblique triangles.

Text: Ashton and Marsh.

301 Differential Equations. Class 3 hours. Credit 3.
Prerequisite: Math. 208.
Solution of differential equations involving two variables.
Text: Murray.

302 Differential Equations. Class 3 hours. Credit 3.
Prerequisite: Math. 301.
Continuation of Math. 301; ordinary differential equations with more than two variables; partial differential equations.
Text: Murray.

DEPARTMENT OF PHYSICS

J. GARRETT KEMP, *Professor*
E. W. SCHUHMANN, *Assistant Professor*

Physics is the basic science which includes the fundamental laws and principles involved in all physical changes. The courses which follow give both a theoretical and practical treatment of the subject. Instruction is based on the material contained in carefully selected textbooks. This is supplemented by lectures illustrated by demonstrations and by lantern slides. The purpose is to give a training in exact reasoning, and a knowledge of principles that will aid in the solution of both scientific problems and those encountered in everyday life.

The laboratory work gives the student an opportunity to test the principal laws of the science. Special attention has been given to equipping the laboratory with modern apparatus which will give consistent experimental results. This work is carefully coordinated with the work of the classrom, and should enable the student to acquire skill in the manipulation and care of delicate apparatus.

The lecture room is provided with terraced seats which permit the students to see the demonstrations performed on the lecture table. It is equipped with a combination lantern slide and opoque projectoscope which is used in illustrated lectures. The laboratory is well arranged for work, and the equipment provided is of such a nature that it meets the requirements of the different courses.

SUBJECTS

103 Physics—Mechanics, Heat and Sound. Class 2 hours, laboratory 4 hours. Credit 3⅓.
Required of all students in home economics of the Freshman class.
Text: Kimball's College Physics.

105 **General Physics—Mechanics, Heat and Sound.** Class 3 hours, laboratory 2 hours. Credit 3⅔. (Non-mathematical.)

This course consists of two demonstration lectures in which lantern slides and projections are used, one recitation, and one laboratory exercise per week. This course and the following, Physics 106, is suitable for students in the Schools of Agriculture, Commerce and Marketing, Education, and those who wish to study the subject for its practical training in the scientific method (the basis of all efficiency developments), and for aesthetic purposes.

Text: Kimball's College Physics, Revised Edition.

106 **General Physics—Magnetism, Electricity and Light.** Class 3 hours, laboratory 2 hours. Credit 3⅔.

Prerequisite: Physics 105, or the equivalent.
This course is the continuation of Physics 105.
Text: Kimball's College Physics, Revised Edition.

201 **Engineering Physics—Mechanics, Heat and Sound.** Class 4 hours, laboratory 3 hours. Credit 5.

Prerequisite: College Alg. and Trig.
Required of all students in the School of Engineering of the Sophomore class.
Text: College Physics, Reed and Guthe.

202 **Engineering Physics—Magnetism, Electricity and Light.** Class 4 hours, laboratory 3 hours. Credit 5.

Prerequisite: Physics 201, or the equivalent.
Required of all students in the School of Engineering of the Sophomore class.
This course is the continuation of Engineering Physics 201.
Text: College Physics, Reed and Guthe.

301 **Electrical and Megnetic Measurements.** Class 2 hours, laboratory 3 hours. Credit 3.

Prerequisite: Physics 201 and 202, or Physics 203 and 204, or the equivalent.
Required of all students of the Junior class in electrical engineering.
Text: Magnetism and Electricity for Advanced Students, Hadley.
Laboratory Manual: Electrical Measurements, C. M. Smith.

302 **Electrical and Magnetic Measurements.** Class 1 hour, laboratory 3 hours. Credit 2.

Prerequisite: Physics 305.
This course is the continuation of 305, and it is required of all students of the Junior class in electrical engineering.
Text: Electrical Measurements, C. M. Smith.

303 **Advanced Physics—Mechanes and Sound.** Class 3 hours, laboratory 3 hours. Credit 4.

Prerequisite: Phyiscs 203, or the equivalent.
Required of Junior class students in exact science.
Text: General Physics for Advanced Students, Edser.

304 **Advanced Physics—Heat and Thermodynamics.** Class 3 hours, laboratory 3 hours. Credit 4.
Prerequisite: Physics 203, or the equivalent.
Required of Junior class students in exact science.
Text: Heat for Advanced Students, Edser.

320 Physics. Popular lectures 2 hours.

This course is for Sophomores, Juniors and Seniors of regular college standing. These lectures will be illustrated by lantern slides, projections and experiments. Assignments for general reading and a neat notebook on the lectures will be required.

403 Advanced Physics—Magnetism, Electricity and Radio-Activity. Class 3 hours, laboratory 3 hours. Credit 4.

Prerequisite: Physics 201 and 202, or Physics 203 and 204, or the equivalent.

Required of Seniors in exact science .

Text: Magnetism and Electricity for Advanced Students, Hadley.

Laboratory Manual: Electrical Measurements, C. M. Smith.

404 Advanced Physics—Light and Radiation. Class 2 hours, laboratory 3 hours. Credit 3.

Prerequisite: Physics 201-202, or Physics 203-204, or the equivalent.

Required of Seniors in exact science.

Text Light for Advanced Students, Edser.

420 Teaching of Physics. Class 1 hour. Credit 1.

Prerequisite: Physics 105 and 106, or the equivalent.

Required of Seniors in the course in exact science in the School of Science and Literature, and elective to all others who have the prerequisite knowledge of the subject matter. The pedagogy of physics in which the methods and procedure in teaching elementary physics will be discussed. Selection of subject matter for classwork and laboratory exercises, apparatus and equipment, choice of text and reference books will be discussed in detail.

430 Meteorology. Class 2 hours. Credit 2.

Preerquisite: Physics 21 and 32, or the equivalent.

All students of college grade are eligible. It will consist of two lectures per week illustrated by experiments and lantern slides. This course is a study of the physics of atmospheric changes and conditions which affect climate, seasons, storms, cyclones, weather maps and predictions, etc.

Text: Elementary Meteorology, Frank Waldo.

DEPARTMENT OF PUBLIC SPEAKING

J. R. PELSMA, *Professor*

This department aims to make each student an intelligent reader and an effective speaker. It aids him to systematize, to correlate, and to express his knowledge gained through study and experience; it encourages concentration, stimulates logical thinking, and gives opportunity for self-expression. It teaches control of thought and action, which is the acme of all education.

Public speaking students are required to attend and to report upon certain public speaking contests and other public addresses

given during the semester, and are urged to join a literary society and to participate in some of the contests provided by the Oratorical Association.

The department has charge of the Amateur Dramatic Club. Its membership is open to students with histrionic ability. The club stages two plays each year.

SUBJECTS

101 Essentials of Public Speaking. (Eight sections each semester. Sections limited to 15 students.) Class 2 hours. Credit 2.

This is an elementary course and a prerequisite to all other courses in public speaking. The fundamental principles of expression are emphasized through drills in correct breathing, tone production, voice modulations, and in the composition and the delivery of original speeches. A basis of self-criticism is effected enabling the student to continue improving his speeches after completing the course. The work will be adapted to the present and future needs of each student.

201 Argumentation and Debate. Class 2 hours. Credit 2.

A study of the principles of argumentation—analysis, evidence, proof, refutation and fallacies. Brief drawing. Practical debating. Platform technique. Critical study of masterpieces of forensic oratory. Parliamentary drill.

202 Oratory. Class 2 hours. Credit 2.

A study of the oration, the orator, and the audience. Analytical study of classic orations. Practice in the composition and the delivery of orations, formal speeches and occasional addresses. The psychology of the crowd in its relation to the public speaker. A brief history of oratory.

203 Dramatic Art. Class 2 hours. Credit 2.

Stage technique. Dramatic interpretation. Platform readings. Staging several one-act plays. Pagentry. Pantomime. Costuming. Making up. Scenery. Choosing, directing and rehearsing plays.

Essential for students interested in amateur theatricals, and for teachers who coach plays.

301 Extempore Speaking. Class 2 hours. Credit 2.

This course aims to cultivate in the student a fluent, forceful and effective presentation of his own thoughts to others. Daily practice will be given on assigned subjects previously mastered and outlined, though the diction of the speech is not memorized. Every student should learn to think while on his feet. This course affords an opportunity to become an effective platform speaker through a careful preparation and delivery of various forms of public address adapted to definite audiences.

302 Literary Interpretation. Class 2 hours. Credit 2.

An advanced course in reading. Classical literary selections will be studied with a view to their vocal interpretation. Studies in the dramatic monologue, humorous, pathetic and dramatic productions will be read. Physical expression. Dialect readings.

303 Oral English. Class 2 hours. Credit 2.

A course designed for teachers of English in secondary schools. Standard literary classics will be interpreted orally. Emphasis will be placed on college entrance requirements in English. Methods of teaching oral English in secondary schools. Vocal technique. Voice defects—diagnosis and treatment. Story-telling. Criteria for judging contests.

304 Seminar in Debating and Oratory. Class 2 hours. Credit 2.

An advanced course in debating and oratory. Designed for intercollegiate debaters, orators and their alternates.

THE SCHOOL OF EDUCATION

John H. Bowers, *Dean*

B. S. Degree and State Life Certificate

Students who complete the full four years' course in the School of Education receive a Bachelor of Science degree and a State Life Certificate in Oklahoma. Others teachers' certificates will be granted by the regular authorities for granting such certificates, State, county or city, to students who have done work at the A. and M. College on the same conditions as for work done at other institutions.

Short Courses for Teachers' Certificates

Those who desire to prepare for teaching and do not desire to take the full four years' course can attend the College one or more terms and elect such studies as are necessary to secure the particular certificate which they desire. When a subject is completed at the College the certificate-granting authorities of the State accept that credit instead of an examination. All subjects required for teachers' certificates are offered some time during the College year, and all such subjects are also offered during the Summer School.

Special Courses for Rural Teachers

The College offers excellent opportunities for those who are preparing to teach in the rural schools. The College instructors understand and appreciate the needs of country life and certain specialists in the College devote their best efforts to the problems of rural welfare.

Requirements for Graduation

The candidates for graduation from the School of Education, in addition to the subjects required for a State permanent certificate, must elect a major group of studies, such as Biology, Physical Sciences, Social Science, Economics, History, English, Foreign Languages, Agriculture, Home Economics. Preparation

may also be made for teaching Manual Training, Music and Commercial subjects.

Electives in Agriculture, Agronomy, Dairying, Horticulture, Entomology, Animal Husbandry, will be found by referring to the courses of study in the School of Agriculture. Students in the School of Education may elect any subjects in the School of Agriculture for which they have the prerequisite.

Electives in Home Economics, Domestic Science and Domestic Art will be found in the School of Home Economics. Students in the School of Education may elect any subjects in Home Economics for which they have the prerequisite.

A grade in Agriculture is required for a certificate, and to meet this requirement, men will be expected to take at least two semesters' work in Agriculture.

A grade in Domestic Science is required for a certificate, and women will be expected to take at least two semesters' work in Home Economics.

The literary, scientific and industrial work required of the students in the School of Education is done in those departments of the College having special facilities and equipment for teaching these branches efficiently and with greatest economy to the prospective teacher. And the special method of teaching these subjects in high school is also given in special courses in their respective departments.

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COURSES IN THE SCHOOL OF EDUCATION

The following outline of study represents the required and elective work in the School of Education. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject. and the even numbers, as 102, the second semester's work. Subjects of the Sophomore, Junior and Senior years are numbered accordingly, two hundred for Sophomore, three hundred for Junior and four hundred for Senior work. One hour of laboratory period is equivalent to one-third of a classroom period in estimating the number of hours per week to be taken.

The total requirements for graduation are 128 credits exclusive of any credits given in military science and physical education. Students will not be allowed to register in fewer than 12 nor more than 20 credit hours.

Sophomore electives are open to Juniors and Seniors where the necessary prerequisite work is taken. Both Junior and Senior electives are open to either Juniors or Seniors.

In the outline below figures without parenthesis indicate hours of classwork, in parenthesis hours of laboratory work.

Course for Teachers of History and Social Science

FRESHMAN YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 101, College	3		3
Chem. 101, Inorganic	3	(4)	4⅓
Edu. 101, Psychology	2		2
Draw. 101, Freehand		(4)	1⅓
Pub. Spk. 101, Essentials	2		2
H. E. 103 (Women)	1		1
H. E. 105 (Women)	2	(4)	3⅓
Agron. 101, Field Crops	2	(4)	3⅓
A. H. 101 (Men) Market Types	1	(4)	2⅓
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
Eng. 102, College	3		3
Chem. 102, Inorganic	2	(4)	3⅓
Edu. 102, Principles	2		2
Draw. 102, Freehand		(4)	1⅓
Pub. Sch. Music	2		2
H. E. 106 (Women)	2	(4)	3⅓
Dairy. 102 (Men)	2	(4)	3⅓
Hort. 104, Vegetable Gardening	2	(2)	2⅔
Physical Education		(3)	
Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER

	Hours	Cr.
Eng. 201, Advanced Composition	2	2
Pub. Spk. 201, Argumentation and Debate	2	2
Edu. 201, History	2	2
Hist. 307, United States	3	3
Econ. 201, Principles	3	3
Elective	4	4
Physical Education (Women)	(3)	
Military Science (men)	(3)	

SECOND SEMESTER

	Hours	Cr.
Eng. 202, Advanced Composition	2	2
Pub. Spk. 202, Oratory	2	2
Edu. 202, Methods and Management	2	2
Hist. 308, United States	3	3
Elective	7	7
Physical Education	(3)	
Military Science	(3)	

JUNIOR YEAR

FIRST SEMESTER

	Hours	Cr.
Hist. 205, English	3	3
Edu. 301, Psychology	2	2
Soc. Sci. 301, Sociology	2	2
Econ. 303, Money and Banking	3	3
Elective	5	5

SECOND SEMESTER

	Hours	Cr.
Hist. 206, English	3	3
Edu. 302, Psychology	3	3
Econ. 301, Corporation Finance	3	3
Elective	7	7

SENIOR YEAR

FIRST SEMESTER

	Hours	Cr.
Hist. 401, Modern Europe	3	3
Edu. 405, Ethics	2	2
Soc. Sci. 401, Government	2	2
Econ. 425, Law of Contracts	3	3
Elective	6	6

SECOND SEMESTER

	Hours	Cr.
Hist. 402, Modern Europe	3	3
Edu. 408, Admininstration and Supervision	2	2
Soc. Sci. 402, Political Theory	2	2
Elective	9	9

Course for Teachers of Mathematics and Science

FRESHMAN YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 101, College	3		3
Chem. 101, Inorganic	3	(4)	4⅓
Edu. 101, Psychology	2		2
Draw. 101, Freehand		(4)	1⅓
Math. 105, Algebra	4		4
A. H. 101 (men)	1	(4)	2⅓
H. E. 105 (women)	2	(4)	3⅓
H. E. 103 (women)	1		1
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
Eng. 102, College	3		3
Chem. 102, Inorganic	2	(4)	3⅓
Edu. 102, Principles	2		2
Draw. 102, Freehand		(4)	1⅓
Math. 108, Trigonometry	3		3
Hort. 104, Vegetable Gardening	2	(2)	2⅔
Pub. Spk. 101, Essentials	2		2
Pub. Sch. Music	2		2
Physical Education		(3)	
Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 201, Advanced Composition	2		2
Edu. 201, History	2		2
Physics 105, General	3	(2)	3⅔
Econ. 201, Principles	3		3
Math. or Science	6		6
Physical Education		(3)	
Military Scneice		(3)	

SECOND SEMESTER	Hours		Cr.
Eng. 202, Advanced Composition	2		2
Edu. 202, Method and Management	2		2
Physics 106, General	3	(2)	3⅔
Physiology 202, Advenced	3	(2)	3⅔
Math. or Science	6		6
Physical Education		(3)	
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER	Hours		Cr.
Edu. 301, Psychology	3		3
Bot. 101, General	2	(4)	3⅓
Soc. Sci. 301, Sociology	2		2
Ento. 202, General	3	(2)	3⅔
Math. or Science	5		5

SECOND SEMESTER	Hours		Cr.
Edu. 302, Applied Psychology	3		3
Bot. 102, General	2	(4)	3⅓
Bact. 310, General	2	(4)	3⅓
Edu. 308, Child Study	2		2
Math, or Science	4		4

SENIOR YEAR

FIRST SEMESTER	Hours	Cr.
Edu. 405, Ethics	2	2
Edu. 412, Science Teaching	2	2
Soc. Sci. 401, Government	2	2
Elective	9	9

SECOND SEMESTER	Hours	Cr.
Edu. 408, School Administration	2	2
Edu. 414, Teaching Mathematics	2	2
Soc. Sci. 402, Political Theory	2	2
Elective	9	9

Language Teachers' Course—English and Foreign Languages

FRESHMAN YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 101, College	3		3
Chem. 101, Inorganic	3	(4)	4⅓
Edu. 101, Psychology	2		2
Draw. 101, Freehand		(4)	1⅓
Language	3		3
Pub. Spk. 101, Essentials	2		2
Agron. 101 (men)	2	(4)	3⅓
H. E. 105 (women)	2	(4)	3⅓
H. E. 103 (women)	1		1
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER	Hours		Cr.
Eng. 102, College	3		3
Chem. 102, Inorganic	2	(4)	3⅓
Edu. 102, Principles	2		2
Draw. 102, Freehand		(4)	1⅓
Language	3		3
Pub. Sch. Music	2		2
Hort. 104, Vegetable Gardening	2	(2)	2⅔
Physical Education		(3)	
Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER	Hours		Cr.
Eng. 201, Advanced Composition	2		2
Eng. 207, English Literature	3		3
Pub. Spk. 201, Argumentation	2		2
Edu. 201, History	2		2
Hort. 201, Fruit-Growing	2	(4)	3⅓
Econ. 201, Priniiples	3		3
Language	3		3
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER	Hours	Cr.
Eng. 202, Advanced Composition	2	2
Eng. 208, English Literature	3	3
Pub. Spk. 202, Oratory	2	2
Edu. 202, Methods and Management	2	2
Language	3	3
Elective	4	4

JUNIOR YEAR

FIRST SEMESTER	Hours	Cr.
Eng. 303, American Literature	2	2
Edu. 301, Psychology	3	3
Soc. Sci. 301, Sociology	2	2
Language	3	3
Elective	6	6

SECOND SEMESTER	Hours	Cr.
Eng. 304, Seminar	2	2
Edu. 302, Applied Psychology	3	3
Edu. 308, Child Study	2	2
Language	3	3
Elective	6	6

SENIOR YEAR

FIRST SEMESTER	Hours	Cr.	SECOND SEMESTER	Hours	Cr.
Edu. 405, Ethics	2	2	Edu. 408, School Administration	2	2
Edu. 416, English Teaching	2	2	Soc. Sci. 402, Political Theory	2	2
Language	3	3	Language	3	3
Elective	9	9	Elective	9	9

DEPARTMENT OF EDUCATION AND SOCIAL SCIENCE

JOHN H. BOWERS, *Professor*
G. W. DUNLAVY, *Visitor of Schools*
FRED MCCARREL, *Instructor*

SUBJECTS

Education

101 Psychology. Class 2 hours. Credit 2.

The aim of this course is to teach the fundamental principles of psychology as a preparation for successful study and profitable school work, to teach the conditions, processes and laws of mental development and the motives and forces that give rise to human conduct.

102 Principles of Education. Class 2 hours. Credit 2.

This course deals with the general principles which underlie the work of teaching and of learning, and the application of such principles of educational processes. The content of this course is sometimes called Theory and practice.

201 History of Modern Education. Class 2 hours. Credit 2.

The purpose of this course is to help arrive at correct notions of what ought to be done in the light of what has been done in education, and to study the diversity of ideals and the best methods for future advancement. The lives and works of great educators is made a source of inspiration and guidance.

202 Methods and Management. Class 2 hours. Credit 2.

The methods of teaching the different school subjects will be presented along with classroom management. Conducting the recitation, governing the school and securing cooperation and like practical problems will be discussed.

301 Psychology. Class 3 hours. Credit 3.

This course will give the fundamentals of psysiological psychology, and a study of the main problems and methods of psychology, sensation, attention, habits, association of ideas,perception, memory, imagination, conception, judgment, reasoning, emotion, volition and personality.

302 Applied Psychology. Class 3 hours. Credit 3.

This course deals with the application of the laws and methods of psychology to problems of life and the work of teaching.

308 Child and Welfare. Class 2 hours. Credit 2.

This course studies the aims and methods of child study, the problems of interest, personality and habit formation, the states of development in childhood and adolescence, and the problems of child welfare.

307 Rural Education. Class 2 hours. Credit 2.

This course deals with the problems of rural school support, administration, supervision, management, and how to make the rural school meet the needs of rural life.

405 Ethics and Moral Education. Class 2 hours. Credit 2.

The fundamental principles of the moral life are studied along with the moral ideals and methods of the individual, the family, the State and other social institutions. The aim is to understand such moral principles as will promote both individual and social welfare, and how these principles operate in character-building and in school work.

406 Logic and the Learning Process. Class 2 hours. Credit 2.

A study of the law of thinking and the processes of true reasoning. Common errors in thinking with the causes for such errors are pointed out, and also guiding principles for correct thinking processes, and for scientific study and investigation.

407 Philosophy of Education. Class 2 hours. Credit 2.

A brief study of educational aims and values, such as vocational education, social education, disciplinary education, cultural education, health education, moral education, and the best means of attaining these ends in the schools.

408 School Administration and Supervision. Class 2 hours. Credit 2.

A study of the curriculum, organization, finance and administration of country schools, town schools and city schools, and the powers and duties of school executives.

430 Educational Measurements. Class 2 hours. Credit 2.

A study of the Curtis tests in reading, writing and arithmetic; Hillegas' tests in composition; the Ayers and Thorndike tests in writing; and a study of the general problems of determining standards of attainment.

One of the courses in education to be taken by those who expect to teach in the public schools should be the theory and practice of teaching that subject which the student has chosen as his major.

Election may be made from the following courses:

410 Manual Training Teaching. Class 2 hours.
Theory and practice teaching.

412 Science Teaching. Class 2 hours.
Theory and practice teaching.

414 Teaching Mathematics. Class 2 hours.
Theory and practice.

415 History Teaching. Class 2 hours.
Theory and practice.

416 English Teaching. Class 2 hours.
Theory and practice.

417 Public School Drawing. Class 2 hours.
Theory and practice teaching.

418 Public School Music Teaching. Class 2 hours.
Theory and practice teaching.

419 Primary Teaching. Class 2 hours.
Theory and practice teaching.

431 Physiology and Experimental Psychology. Class 1 hour, laboratory 3 hours. Credit 2.
A study of the functions of the nervous system, of the relation of mind and body, of physiological methods, of visual, auditory and other sensations along with the application of experimental methods.

432 Vocational Psychology. Class 2 hours. Credit 2.
Practical phases of psychology applied to the affairs of everyday life. Each student will be allowed to do some independent work along the line of his own interest or his own chosen vocation.

433 Psychology of High School Subjects. Class 2 hours. Credit 2.
A review of the mental processes involved in the study of secondary school subjects; a treatment of the general problem of study and of adolescent development.

434 Social Psychology. Class 2 hours. Credit 2.
A study of human nature with reference to social behavior, social control, social ethics and social progress; chaarcter-building under social influences; student self-government and community cooperation.

NOTE.—Edu. 431, 432, 433, 434, advanced psychology courses, are open to graduate students and Senior College students who have had elementary psychology, or who take elementary psychology concurrently. In conferences with the Dean of the School of Education, each graduate student may arrange to do some work along the line of his own interest.

435 Vocational Education. Class 2 hours. Credit 2.
A review of the history, purposes, organization, methods and promotion of vocational education and its articulation with the traditional school systems, and with the preparation for life work.

436 High School Administration. Class 2 hours. Credit 2.
A study of the problems of high school management, the rural and village high school, the junior high school, the course of study, vocational studies, the government, social and moral life of the high school.

437 History of American Education. Class 2 hours. Credit 2.
A study of the growth and progress of educational systems and methods with emphasis on the more recent development for the guidance of those who must help determine what shall be our own best lines of advancement in the immediate future.

438 Social Phases of Education. Class 2 hours. Credit 2.
Education as a socializing process. The school as a social factor. The extension of the school. How the school may build the character that will improve social conditions and aid in the solution of social problems.

NOTE.—Edu. 435, 436, 437, 438 are open to graduates and Senior College students who have had 4 hours in education or experience in teaching, or who take elementary courses concurrently. In conference with the head of the department, each graduate student may arrange to do some work along the line of his own interest.

Social Science

301 Sociology and Social Welfare. Class 2 hours. Credit 2.

A brief study of the conditions of social life, social psychology, social organizations, social development, social control, social institutions, and the factors involved in social progress and social welfare.

304 Social Problems. Class 2 hours. Credit 2.

A study of rural social life and rural welfare along with the problems of poverty, public health, social insurance, and the legal and spiritual remedies for some of our greatest social defects.

401 Government and Political Methods. Class 2 hours. Credit 2.

The object is to teach the actual methods of self-government; to make an impartial study of the methods by which political parties organize and conduct their campaigns, along with the improvements that might be made in party methods and in actual government.

402 Political Theory. Class 2 hours. Credit 2.

A survey of the forms through which governments have evolved, of the principles of government, and of the actual practices of our American State and National Governments.

Political and Social Science

405 Rural Sociology. Class 2 hours. Credit 2.

Conditions of country life and constructive organization for improvement. A survey of social conditions for the purpose of rural progress. Improvements in rural homes, rural health, culture, literature, art, religion, recreation and education.

406 Social Conservation. Class 2 hours. Credit 2.

To learn the methods of resisting the waste of resources. Social methods of conserving, soil, lumber, mineral and other resources. To eliminate certain kinds of human waste. To reduce the human waste of indolence, vagrancy, extravagance, inefficiency, vice, crime and alcoholism.

407 Elementary Law. Class 2 hours. Credit 2.

An introductory view of the nature of law, its sources and the methods of its development along with some of the essentials of the different phases of law most useful to the layman.

408 Law for the American Farmer. Class 2 hours. Credit 2.

A brief study of the laws of contracts, partnerships, landlord and tenant, agency, insurance, negotiable paper and other elements of business law.

NOTE.—401, 402, 407, 408, advanced social science work, will be arranged for graduate students.

THE SCHOOL OF COMMERCE AND MARKETING

H. W. Moorhouse, *Dean*

This course has been planned to give students an understanding of business and business relationships. Commerce, industry and trade have become so complex that men engaged in such astivities must have a thorough knowledge of business technique and economic principles.

Commerce, which was once limited to small, restricted areas, now, with modern transportation and communication, covers the entire earth. Marketing, at one time a single transaction, is now an intricate process, weaving its way through a maze of varied industry and business.

Since the great majority of students enter some branch of business, it is important that opportunity should be given in a course of this kind to gain a grasp of fundamental business principles.

The largest single group of subjects is taught by the Department of Economics and Marketing. These subjects give young men breadth of view in business affairs and train them in the execution of details for the purpose of preparing them for active management in the world of industry. The description of these courses on another page shows the scope and strength of the work.

There is ample opportunity for electives in other departments. The business man must be broad-gauged. He is constantly called upon to meet a vast variety of problems. The banker, for instance, should know livestock. The merchant and manufacturer should understand the uses of chemistry. Every business is vitally related to every other business and to science, history and psychology.

In agriculture the student can take Commercial Grades of Grain, Livestock Judging, Cotton Grading, Fruit Packing and

Grading; in business training, Bookkeeping, Typewriting, Shorthand; in science, Chemistry, Petroleum Technology, Investment and Insurance Mathematics.

Spanish and French languages are offered for the benefit of the men who may want to represent corporations or the Government abroad. Other valuable electives are History, Journalism, Public Speaking and Psychology. These and many additional subjects in other departments can be used by the student in pointing his study in the direction of his special interests.

It is believed that this course gives a broad, deep grasp of business knowledge and that the graduate who has initiative and is willing to work will always make a big place for himself in his chosen field of affairs.

COURSES IN
THE SCHOOL OF COMMERCE AND MARKETING

The following outline of study represents the required and elective work in the School of Commerce and Marketing. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject and and even numbers, as 102, the second semester's work. Subjects of the Sophomore, Junior and Senior years are numbered accordingly, two hundred for Sophomore, three hundred for Junior and four hundred for Senior work. One hour of laboratory period is equivalent to one-third of a classroom period in estimating the number of hours per week to be taken.

The total requirements for graduation are 128 credits exclusive of any credits given in military science and physical education. Students will not be allowed to register in less than 12 nor more than 20 credit hours. Sophomore electives are open to Juniors and Seniors where the necessary prerequisite work is taken.

In the outline below figures without parenthesis indicate hours of classwork, in parenthesis, hours of laboratory work.

FRESHMAN YEAR

FIRST SEMESTER	Hours		Cr.	SECOND SEMESTER	Hours		Cr.
Chem. 101, Inorganic	3	(4)	4⅓	Chem. 102, Inorganic	2	(4)	3⅓
Eng. 101, College	3		3	Eng. 102, College	3		3
Econ. 103, Products of Commerce	3		3	Econ. 102, Elements of Business	2		2
Bus. 103, Typewriting		(10)	3⅓	Econ. 104, Trade Routes	3		3
Pub. Spk. 101, Essentials of Public Speaking	2		2	Bus. 104, Typewriting		(10)	3⅓
Physical Education		(3)		M. E. 104, Mechanical Drawing		(4)	1⅓
Military Science		(3)		Physical Education		(3)	
				Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER	Hours	Cr.	SECOND SEMESTER	Hours	Cr.
Econ. 201, Principles of Economics	3	3	Econ. 206, Business Management	3	3
Econ. 202, Principles of Commerce	3	3	Econ. 208, Statistics	3	3
Foreign Language	3	3	Foreign Language	3	3
Elective	7	7	Elective	7	7

JUNIOR YEAR

FIRST SEMESTER	Hours	Cr.	SECOND SEMESTER	Hours	Cr.
Econ. 303, Money and Banking	3	3	Econ. 301, Corporation Finance	3	3
Econ. 309, Accounting Practice and Principles	3	3	Econ. 312, Salesmanship	3	3
Econ. 311, Marketing Organization	3	3	Econ. 314, Corporation Accounting	3	3
Elective	7	7	Elective	7	7

SENIOR YEAR

FIRST SEMESTER	Hours	Cr.	SECOND SEMESTER	Hours	Cr.
Econ. 415, Foreign Trade	3	3	Econ. 419, Public Finance	3	3
Econ. 421, Transportation	3	3	Econ. 422, Laws of Sales, Negotiable Paper and Corporations	3	3
Econ. 425, Laws of Contracts and Agency	3	3	Econ. 424, Labor Economics	3	3
Elective	7	7	Elective	7	7

Electives for Commerce and Marketing

Commerce and Marketing students may elect subjects offered by the following departments, subject to the approval of the Dean of the School of Commerce and Marketing.

Group I—Agriculture

Department of Animal Husbandry.
Department of Dairy Husbandry.
Department of Poultry Husbandry.
Department of Agronomy.
Department of Horticulture.
Department of Farm Engineering.

Group II—Office Training

*Department of Business Training.

Group III—English, Public Speaking and Foreign Language

Department of English.
Department of Foreign Languages.
Department of Public Speaking.

Group IV—Science

Department of Chemistry.
Department of Mathematics.
Department of Physics.
Department of Biology.
Department of Chemical Engineering.

*Credit in this department is limited as follows: Shorthand 8, Typewriting 6⅔, Bookkeeping 3⅓.

Group V—Pedagogy, Sociology and History

Department of History.
Department of Education and Social Science.

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DEPARTMENT OF ECONOMICS AND MARKETING

H. W. MOORHOUSE, *Professor*
L. M. GRAVES, *Instructor*

SUBJECTS

102 Elements of Business. Class 2 hours. Credit 2.

An elemental study of business and business men for the purpose of observing the principles of business success in order that the students, in the first year of their course, may begin to plan and pursue their future studies more effectively.

103 Products of Commerce. Class 3 hours. Credit 3.

A study of the relation of industrial development to the natural environment. The effect of climate and topography, and the geological distribution in all the great primary industries, such as cereals, animal industries, sugar, fisheries, forests and mining. The course includes notice of the basic factors of manufacturing and characteristics of principal industries—iron and steel, textiles, leather, machinery and chemicals.

Text: Industrial and Commercial Geography, Smith.

104 Trade Routes. Class 3 hours. Credit 3.

The economic and geographic basis of foreign commerce. A detailed study of all the continental and ocean trade routes, character of the traffic, ports and coaling stations, ocean freights and shipping organization, world commercial organization, commercial centers and national commercial policies.

Text: Industrial and Commercial Geography, Smith.

201 Principles of Economics. Class 3 hours. Credit 3.

The foundation for all of the other studies in economics. Serves as an introduction to the consideration of money and banking, commerce, business organization and administration, labor problems, public finance, etc. The science of economics is presented according to the four classical divisions—production, exchange, distribution, consumption.

Text: Political Economy, Gide.

202 Principles of Commerce. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

A survey of all the organized machinery involved in the exchange of commodities in both domestic and foreign commerce. Commerce is dealt with as a branch of production, and in its historical development. Introduction to the technique of wholesale and retail business, banking, transportation, warehousing and insurance. Attention is directed to the laws of commerce and customary forms of all commercial bills and documents.

Text: Principles and Practice of Commerce, Stephenson.

206 Business Management. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

A survey of the problems confronting the business manager for

the purpose of giving the student early in the course a view of business in all its relationships and familiarity with its technique. Following are some of tthe points examined: The business environment, forms of enterprises, financing, office administration, wage systems and control of labor, purchasing and selling, traffic, credit, forecasting business conditions, etc.

Text: Principles of Business, Gerstenberg.

208 Statistics. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

A study of the handling of economic problems by the statistical method, including basic principles, collection and tabulation of data, determination of types and averages, coefficients of variation, index numbers and methods of graphic presentation. Most of the work consists of practical problems, and each student is given independent assignments in statistical investigation.

Text: Elements of Statistical Method, King.

301 Corporation Finance. Class 3 hours. Credit 3.

Prerequisite: Econ 201.

The one-man business, partnership and corporation are studied and compared. Special emphasis is placed on the corporation in its many ramifications as holding company, merger, amalgamation, trust, etc. Pooling agreements, promotion, sale of securities, receivership, and Government regulation are covered thoroughly.

303 Money and Banking. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

The relation of money and credit to every business activity is shown and studies are made of the currency systems of this and foreign countries. Special attention is given to an analysis of commercial and investment paper. A thorough survey is made of the history, organization and present operation of national banks, state banks, trust companies, treasury systems, Federal Reserve banks, Federal Land banks, etc.

Text: Money and Banking, Scott.

308 Business for Women. Class 2 hours. Credit 2.

An explanation of the common instruments of business and of important economic principles. An examination of marketing problems with special reference to products bought for the home. A comparison of wholesale and retail, direct and indirect, cash and credit buying. Also a description of practical plans for household accounting.

309 Accounting—Practice and Principles. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

A study of the principles and theory of double-entry accounting, beginning with the assets and liabilities statement and the income and expense statement, and then examining the sources from which these two final summaries are made; namely, the ledger and journal. Practical problems are worked out in detail. Practice is given in closing the books, the trial balance, partial summarization, adjustment entries, etc.

Text: Accounting—Theory and Practice—Vol. I, Kester.

311 Marketing Organization. Class 3 hours. Credit 3.

Prerequisite: Econ. 201-202.

A study, in all their relationships, of products, markets, consumer-

demand, prices, and the agencies which cooperate in taking the product from producer to consumer. Intensive examination is made of the work of the exchanger, such as: Wholesaler, jobber, commission dealer, broker, scalper, manufacturer's agent, retailer, including department store, mail-order house, chain store, etc.

312 Salesmanship. Class 3 hours. Credit 3.

Prerequisite: Econ. 201-202.

A survey of the principles of salesmanship, including advertising. Selling talks, sales letters and advertising copy are analyzed and practice in their preparation and application is given. Lessons are drawn from sales departments of large corporations. Goods, prices and market conditions are studied.

Text: Personal Efficiency and Selling, Allen.

314 Corporation Accounting. Class 3 hours. Credit 3.

Prerequisite: Econ. 309.

An examination from accounting standpoint of the corporation balance sheet, principles of valuation, depreciation, mercantile credits, wasting assets, contingent liabilities, profits, surplus and reserves, dividends, sinking fund, liquidation, consolidations, branches, reports of receivers and trustees.

Text: Accounting Theory and Practice, Vol. II, Kester.

406 Laws of Contracts. Class 2 hours. Credit 2.

Principles of law are drawn from the study of cases. Contracts are examined under the following divisions: Formation, interpretation, operation, discharge. This subject is offered for the benefit of engineers, agriculturists and others who have not the time to take the longer law courses.

Text: Cases On Commercial Law, Bays.

414 Rural Economics. Class 2 hours. Credit 2.

Prerequisite: Econ. 201.

A study of farm business and rural life. A view of the relation of the farm home, social life, good roads, community cooperation, tenantry, soil conservation, standardization of crops, rural credits and better marketing to rural progress. A broad view of the possibilities of reorganizing agriculture and rural life. A thorough survey is made of rural conditions in foreign countries, United States and Oklahoma.

415 Foreign Trade. Class 3 hours. Credit 3.

Prerequisite: Econ. 201, 202.

The principles as well as the technique on which foreign trade is based and developed are emphasized. Attention is called to the characteristics of foreign peoples and the material resources of the countries. Facts are tabulated concerning amount and kind of exports and imports, and the best lines for export development. Examination is made of tariffs, treaties, regulation of ports, work of consular agencies, etc.

417 City Economics. Class 2 hours. Credit 2.

Prerequisite: Econ. 201.

A view of municipal administrative problems. The franchise and the regulation and ownership of public utilities are subjects for special consideration. Special attention is also given to the commission and city manager forms of government.

Text: The Modern City and Its Problems, Howe.

419 Public Finance. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

A general consideration of public revenues and expenditures. The theory and facts of public expenditure; taxation; general theory; taxing systems of the United States and foreign countries; questions of administration, effects and incidents; treasury management, public credit and the budget.

Text: Public Finance, Adams.

421 Transportation. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

Deals primarily with railroad economics, but some attention is given to water and highway transportation. Rates are studied in their effect upon commerce and industry and the rate theories compared. Questions of routing, adjustment of claims, freight classification, etc., are examined. Railroad administration in foreign countries is investigated and study is made of governmental ownership.

422 Laws of Sales, Negotiable Paper and Corporations. Class 3 hours. Credit 3.

Prerequisite: Econ. 201, 425.

Principles of law are drawn from the study of cases.

Outline for Sales: Formation of contract of sale, transfer of property and title, performance, rights of unpaid seller against the goods, actions for breach.

Outline for Negotiable Paper: Formation of negotiable contract, rights and liabilities, procedure to fix liability, discharge of paper, bills of exchange, promissory notes and checks.

Outline for Corporations: Corporate capacity and powers, stock and stockholders, directors and administrative officers, foreign corporations.

Text: Cases on Commercial Law, Bays.

424 Labor Economics. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

A study of labor conditions from the standpoint of manager and laborer. A survey of scientific management, wage systems, factory laws, accident compensation, strikes, compulsory arbitration, organized labor, woman and child labor, welfare work, etc.

425 Laws of Contracts and Agency. Class 3 hours. Credit 3.

Prerequisite: Econ. 201.

Principles of law are deduced from the study of cases. Contracts are examined under following heads: Formation, interpretation, operation, discharge. Agency under following divisions: Nature and formation of relation of principal and agent, mutual rights and duties, rights and obligations of third persons, termination of relationship.

Text: Cases on Commercial Law, Bays.

DEPARTMENT OF BUSINESS TRAINING

S. C. BEDINGER, *Professor*
A. C. DOERING, *Assistant Professor*
WILLARD RUDE, *Assistant Professor*

The regular two-year course in Business Training is open to students who have completed two years of high school work, or

who have 7½ units. Students not having these qualifications but who are at least eighteen years of age, and have completed the eighth grade, will be permitted upon examination in spelling, English and arithmetic, to take either a straight shorthand or bookkeeping course, such course to be outlined according to each individual student's previous preparation for the work. Application for advanced standing should be made to the head of the department. At the completion of the two-year course the student is given a diploma showing that he has completed the Business Training course.

OUTLINE OF COURSES IN THE DEPARTMENT OF BUSINESS TRAINING, GIVING SUBJECTS AND HOURS

FIRST YEAR

FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
Bus. 1, Arithmetic	3	Bus. 2, Arithmetic	3
Bus. 3, Bookkeeping	(10)	Bus. 4, Bookkeeping	(10)
Business English	3	Bus. 51, Correspondence	3
Bus. 5, Spelling and Penmanship	(3)	Bus. 6, Spelling and Penmanship	(3)
Bus. 7, Shorthand or Stenotypy	5	Bus. 8, Shorthand or Stenotypy	5
Bus. 9, Typewriting	(5)	Bus. 10, Typewriting	(8)

SECOND YEAR

FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
Bus. 63, Business Efficiency	3	Bus. 52, Office Training	2
Bus. 59, Business Law	3	Bus. 54, Spelling and Penmanship	(3)
Bus. 65, Banking	2	Bus. 56, Typewriting	(10)
Bus. 57, Dictation	(8)	Bus. 58, Business Law	3
Bus. 53, Spelling and Penmanship	(3)	Bus. 60, Dictation	(8)
Bus. 55, Typewriting	(8)	Bus. 62, Business Economics	3
		Pub. Spk. 122, Essentials	2

SUBJECTS

1-2 Arithmetic. Class 3 hours. Credit 3.

The nonessentials are entirely omitted in this work. Those parts are given which contribute to business efficiency, such as: Aliquot parts of money, fractions, interest and discount, storage, percentage, profit and loss, partnership settlements, equation of accounts and partial payments.

3-4 Bookkeeping. Class 10 hours. Credit 3⅓.

This course covers the different and various lines of industries. First, elementary work is given in the fundamental principles of debit and credit, followed by work in columnar books and statements of various kinds. There is special work in the closing of ledgers, the making of special business, trading, profit and loss and financial statements. In the more advanced work is included: Partnership and corporation accounting, special cost accounting, and work in the following particular lines: Banking, real estate, insurance, railroad station work, manufacturers and jobbing and commission accounting.

The thorough work in the above lines is supplemented with an auditing department where the functions of this subject are taught and its relation to the other departments shown.

5-6-53-54 Spelling.

All persons taking the Business Course must carry this subject. Thousands of positions each year are either not secured or lost on account of bad spelling. The value of spelling to the stenographer especially is obvious. The same is almost equally true with the bookkeeper. The work in spelling is always written. Students are required to make a grade of 95% on examination in the subject before securing a diploma.

Penmanship.

The business world demands that penmanship should be plain, rapid, easily written and easily read. Slow writing is out of date. The student is taught the arm or muscular movement method. At first considerable time is spent on movement drills in order to develop a good foundation; this is followed by intermediate drills, and finally the letters, according to principles and frequensy of occurrence. A great deal of time is spent on sentence practice and letter-writing. The development of a small, rapid, condensed handwriting is the end in view.

7-8 Shorthand. Class 5 hours. Credit 4.

This course covers thoroughly the Shorthand Manual and gives the student a thorough knowledge of the principles of the shorthand system, work signs, contraction and phrases, etc. This is followed by a large amount of dictation. The Gregg System is taught.

101-102 Shorthand. Class 4 hours. Credit 4 each.

Similar to Bus. 7 and 8.

9 Typewriting. Machine work 8 hours. Credit 2⅔.

10 Typewriting. Machine work 8 hours. Credit 2⅔.

Prerequisite: Bus. 9.

The touch system is employed. Mastery of the keyboard and a general knowledge of the mechanism of all standard machines. Requirements: First ten lessons in rational typewriting, or the equivalent, and a speed of twenty words per minute from copy matter. Speed drills and instruction in the care and adjustment of the typewriter. For stenographers, drills in transcription from shorthand notes and construction of letters. Nine hours per week. Requirements: Completion of all lessons in the Manual up to Lesson 26, and a speed of thirty words per minute. Copy matter.

55 Typewriting. Machine work 8 hours. Credit 2⅔.

Prerequisite: Bus. 9 and 10.

56 Typewriting. Machine work 10 hours. Credit 3⅓.

Prerequisite: Bus. 9, 10, 55.

Completion of the lessons in the Manual. Drills in speed writing from manuscripts and rapid transcription from shorthand notes, inculding business letters and miscellaneous matter. Requirements: A speed of forty words per minute from copy matter; from shorthand notes, new matter transcribed at the rate of twenty words per minute. Rapid transcription from shorthand notes. Dictation direct to the machine. Legal forms, stencil-cutting and care of the machine.

Requirements: A speed of fifty words per minute from copy matter, with not over five errors; from shorthand notes, transcribed at the rate of thirty-five words per minute, from new matter. All papers to be graded by the International Typewriting Rules.

103, 104 Typewriting. Machine work 10 hours. Credit 3⅓.

51 Business Correspondence. Class 3 hours. Credit 3.

A practical knowledge regarding the art of selling by mail is given in this subject. Selling personal services, selling merchandise, or anything else where the art of selling is involved, is carefully taught; in other words, successfully doing business by letter.

52 Office Training. Class 2 hours. Credit 2.

This course is to meet the great needs of the stenographer who goes to work in an office. After completing the shorthand manual and taking up dictation, the student is then ready for this course. It is intended to put the finishing touches to the student's knowledge of shorthand and typewriting. Thorough instruction is given in business ethics, the mechanics of letterwriting, uses of business forms and papers, filing, bills, shipping, duplicating, constructing business letters, rough draft, and, in fact, any other work likely to come under the student's supervision in an office.

58-59 Business Law, Class 3 hours. Credit 3.

This subject takes up contracts, negotiable paper, partnership, sale of chattels, interest, usury, wills, conveyances of real estate, mortgages, etc.

57-60 Dictation. Practice 8 hours. Credit 2⅔.

The work on the manual and that of dictation are by no means separate and distinct, since dictation begins early in the theory work, and theory continues through dictation. However, the second semester of the work is more largely dictation. Before advancing to office practice the student should develop sufficient ability to write new matter from dictation at an average speed of seventy-five words a minute for a period of half an hour. New matter at the rate of 100 words a minute for five minutes, transcribed accurately, is required for graduation.

65 Banking. Class 2 hours. Credit 2.

This course is designed for three classes of students: Those who intend to devote themselves to the business of banking, those who are thus engaged, and those who are desirous of knowing more about money and the banking business in general.

62 Business Economics. Class 3 hours. Credit 3.

This subject treats of those social conditions that are due to the wealth-getting and wealth-using activities of man; and which deal with all phases of his life insofar as they affect his social activity in this respect.

63 Business Efficiency.

The students of today have a great opportunity for real leadership in the smaller towns and cities, as well as the large centers of this country. To succeed to this leadership they must understand the psychology of salesmanship.

Typewriting Rates

15 hours a week, one semester	$ 3.00
10 hours a week, one semester	2.00
5 hours a week, one semester	1.00

Stenotypy Rates

First semester	$ 1.00
Second semester	1.00

Special students, or those taking typewriting where it is not a required subject in their course, will be charged $2.50 a semester, regardless of hours taken.

THE SCHOOL OF VETERINARY MEDICINE

L. L. LEWIS, *Dean and Professor of Veterinary Medicine*
C. H. MCELROY, *Assistant Professor*
A. J. STEINER, *Assistant Professor*

The growing importance of the livestock industry of the State has made a course in Veterinary Medicine a necessity. The work is outlined so as to provide a thorough and well-balanced course of instruction leading to the degree of Doctor of Veterinary Medicine.

The entrance requirements to this course of study include the presentation of 15 units of high school work. (See entrance credits in first of catalog for detailed statement.)

Candidates for the degree of Doctor of Veterinary Medicine must have attained the age of twenty-one years and satisfactorily completed all of the course as outlined.

There are many opportunities in professional and scientific work for young men of thorough training in veterinary medicine. In order to meet the demands that are made on those entering the field of private practice or positions requiring technical knowledge, the veterinarian must have a good general education in addition to the specialized work in veterinary medicine.

The last two years' work in veterinary medicine will not be given in 1919-20.

Some of the more prominent fields of work open to veterinarians are as follows:

Private Practice.—There are many good fields of work, not only in Oklahoma, but in other States. There is a growing interest in the South in the livestock business, and as money invested in livestock increases, so will the demand for competent veterinarians.

Civil Service.—Much important work in the United States Department of Agriculture is open only to men who are graduates from veterinary colleges.

State and City Work.—The positions of State and Assistant

State Veterinarians and municipal food inspectors are open as a rule only to qualified veterinarians.

The army service also offers a field of work that is becoming attractive to qualified men.

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COURSES IN THE SCHOOL OF VETERINARY MEDICINE

The following outline of study represents the required work in the School of Veterinary Medicine. The courses are numbered, beginning with one hundred in the Freshman year; odd numbers, as 101, represent the first semester's work in the subject, and the even numbers, as 102, represent the second semester's work. Freshman and higher class subjects are numbered as hundreds, one hundred for Freshman work, two hundred for Sophomore work, etc. The laboratory work is in parenthesis, and three hours of this work is equivalent to one theory hour, or one credit. To graduate, a student must complete the following course as outlined. Registration will not be permitted in less than 12 nor more than 20 credit hours.

FRESHMAN YEAR

FIRST SEMESTER

	Hours		Cr.
V. M. 101, Anatomy	2	(6)	4
V. M. 103, Histology	2	(4)	3⅓
Zool. 201, General	2	(4)	3⅓
Chem. 101, Inorganic	3	(4)	4⅓
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
V. M. 102, Anatomy	2	(6)	4
V. M. 104, Histology	2	(4)	3⅓
Chem. 102, Inorganic	2	(4)	3⅓
Zool. 402, Embryology	2		2
A. H. 202, Breeds	2	(3)	3
Physical Education		(3)	
Military Science		(3)	

SOPHOMORE YEAR

FIRST SEMESTER

	Hours		Cr.
V. M. 201, Anatomy	2	(6)	4
V. M. 203, Materia Medica	3		3
V. M. 205, Pathology	2	(4)	3⅓
V. M. 211, Physiology	3	(2)	3⅔
V. M. 209, Parasitology	2	(2)	2⅔
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
V. M. 202, Anatomy	2	(6)	4
V. M. 204, Materia Medica	3		3
V. M. 206, Pathology	2	(4)	3⅓
V. M. 212, Physiology	3	(2)	3⅔
V. M. 208, Pharmacy	1	(3)	2
A. H. 306, Animal Nutrition	3		3
Military Science		(3)	

JUNIOR YEAR

FIRST SEMESTER

	Hours		Cr.
V. M. 301, Theory and Practice	3		3
V. M. 317, Therapeutics	3		3
V. M. 305, Surgery	2		2
V. M. 307, Surgical Anatomy		(4)	1⅓
V. M. 303, Clinical Diagnosis	2		2
V. M. 311, Special Pathology	1	(3)	2
V. M. 319, Soundness		(2)	⅔
V. M. 321, Restraint		(2)	⅔
V. M. 313, Clinic		(7)	2⅓

SECOND SEMESTER

	Hours		Cr.
V. M. 302, Theory and Practice	4		4
V. M. 304, Therapeutics and Toxicology	4		4
V. M. 306, Surgery	3		3
V. M. 310, Bacteriology	3	(4)	4⅓
V. M. 314, Clinic		(6)	2

SENIOR YEAR

FIRST SEMESTER

	Hours		Cr.
V. M. 401, Theory and Practice	4		4
V. M. 403, Surgery	3		3
Bact. 403, Technical	3	(4)	4⅓
V. M. 405, Dentistry	1		1
V. M. 411, Obstetrics	3		3
V. M. 415, Clinic		(7)	2⅓

SECOND SEMESTER

	Hours		Cr.
V. M. 402, Theory and Practice	4		4
V. M. 404, Special Surgery	2		2
V. M. 406, Milk and Dairy Inspection	1	(2)	1⅔
V. M. 408, Laboratory Diagnosis		(2)	⅔
V. M. 410, Meat Inspection	3		3
V. M. 412, Lameness and Shoeing	2	(4)	3⅓
V. M. 414, Jurisprudence	1		1
V. M. 416, Clinic		(6)	2

Description of Courses and Equipment

The equipment used for instruction in veterinary medicine includes that of the laboratories of bacteriology, physiology, chemistry and zoology. Separate buildings are provided for the work in anatomy and the medical and surgical treatment of animals. Such facilities will enable students to undertake their work with all conveniences and equipment afforded by well established courses of instruction.

SUBJECTS

101 Anatomy. Class 2 hours, laboratory 6 hours. Credit 4.

Osteology and myology of head and neck.

A comparative study of the muscles of the head and neck of the horse. Instruction in anatomy extends over a period of two years and is given by lectures, recitations and laboratory work. Each student is required to make one or more complete dissections of the horse, with comparative dissections of the trunk and viscera of other domesticated animals.

Text: The Anatomy of the Domestic Animals, Sisson.

102 Anatomy. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Anat. 101.

Myology of the thoracic limb and trunk.

103 Histology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Histology is microscopic anatomy and in the allotted time the student is required to collect, prepare and make drawings of all the different tissues of the body. This course is necessary in order that the later instruction in the various disease processes may be fully understood.

104 Histology. Class 2 hours, laboratory 4 hours. Credit 3⅓.

A continuation of the work of the previous semester.

Text: Normal Histology, Piersol.

Reference: Ferguson; Davidhoff and Huber; Stedman's Medical Dictionary.

201 Anatomy. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Anat. 101, 102.

Myology of pelvic limb and splanchnology.

In addition to the dissection of the muscles and ligaments of the

pelvis and hind limbs, dissections of the organs and viscera of the trunk will be commenced and continued through the next semester.

202 Anatomy. Class 2 hours, laboratory 6 hours. Credit 4.

Prerequisite: Anat. 101, 102, 201.

Angiology and neurology.

The work of this semester will be a continuation of the dissections of the viscera and will include a special study of the circulatory and nervous systems of the horse. Surgical regions are especially emphasized.

203-204 Materia Medica. Class 3 hours. Credit 3.

Prerequisite: Freshman Chem. 101 and 102.

Materia medica is a subject that deals with the origin, deriviation, physical and chemical properties and tests of purity of medical materials. The subject is taught throughout the second year, the first half being inorganic and the second half organic.

Text: Materia Medica and Therapeutics, Winslow.

205-206 General Pathology . Class 2 hours, laboratory 4 hours. Credit 3⅓.

Prerequisite: Vet. Med. 103 and 104.

A study of the effects of disease processes upon the body tissues and fluids without reference to any particular disease. In the laboratory these processes are studied and drawn with the aid of the microscope and projectoscope. The students are instructed in laboratory technique.

208 Pharmacology. Class 1 hour, laboratory 3 hours. Credit 2.

A lecture and laboratory course given to the second-year class during the second semester, embracing a study of the theory of pharmaceutical methods and operations, and the compounding of various preparations with special reference to prescription work.

209 Parasitology. Class 2 hours, laboratory 2 hours. Credit 2⅔.

A study of internal and external parasites of the domestic animals is taken up and their methods of control and eradication discussed.

211-212 Comparative Physiology. Class 3 hours, laboratory 2 hours. Credit 3⅔.

By aid of lectures, demonstrations and tests the comparative physiology of the domesticated animals is presented in a thorough and practical manner.

The veterinary students have access to the well equipped physiology laboratory of the School of Science and Literature and are given every opportunity to demonstrate the functions of the different organs of the body by the aid of modern apparatus.

301 Theory and Practice. Class 3 hours. Credit 3.

302 Theory and Practice. Class 4 hours. Credit 4.

Theory and practice includes a study of the diseases of domesticated animals, their diagnosis and treatment as met in routine practice. This subject is taught for two years. In that length of time it is intended by means of lectures and clinics to acquaint the student with as great a variety of abnormal conditions as possible and instruct him in their diagnosis and treatment.

303 Clinical Diagnosis. Class 2 hours. Credit 2.

In presenting this subject, it is the intention of the instructor to condense, review and emphasize the methods used in diagnosing diseases.

304 Therapeutics and Toxicology. Class 4 hours. Credit 4.

Therapeutics is a study of the use of all agencies that are of value in the treatment of diseases and the relief of pain. Thus it is the application of the previous course in materia medica, with the additional emphasis on the toxication of drugs and antidotal measures to be employed in combating them.

305 Surgery. Class 2 hours. Credit 2.

306 Surgery. Class 3 hours. Credit 3.

Prerequisite: First and second-year anatomy.

The theory of veterinary surgery is given the third and fourth-year students in connection with the theory and practice of medicine and the hospital clinic.

Methods of restraint, the use of different anesthetics and the general principles of surgical technique are taught the first semester of the Junior year. The different surgical diseases are then studied and discussed.

The clinic offers practical demonstrations of the principles discussed in class.

307 Surgical Anatomy. Laboratory 4 hours. Credit 1⅓.

Prerequisite: Anat. 101, 102, 201, 202.

A review of the previous course, with special reference to the general topography and various surgical areas of the horse, ox, dog and pig.

Text: Comparative Anatomy, Sisson.

Reference: Surgical Anatomy, Share, Jones.

311 Special Pathology. Class 1 hour, laboratory 3 hours. Credit 2.

Prerequisite: Vet. Med. 205 and 206.

This work includes a study of disease processes in the different organs of the body and specific diseases. An introduction to post-mortem technique is given and, when autopsies are available, the student will be taught to apply his knowledge in a practical way.

Text: Veterinary Postmortem Technique, Crocker.

313 Clinic. Laboratory 7 hours. Credit 2⅓.

314 Clinic. Laboratory 6 hours. Credit 2.

317 Therapeutics. Class 3 hours. Credit 3.

319 Soundness. Laboratory 2 hours. Credit ⅔.

A knowledge of the special phases of soundness from a legal standpoint is of the greatest value to a veterinarian. He should be able to advise his clients regarding the significance of weaknesses and blemishes, their probable transmissibility by breeding, etc. The hospital clinic furnishes abundant material to make this a thorough course of study.

321 Restraint. Laboratory 2 hours. Credit ⅔.

The student is taught to confine animals for various surgical operations and manipulations. The hospital is equipped with operating table, stocks and casting harness for all surgical work.

401 Theory and Practice. Class 4 hours. Credit 4.
Prerequisite: 301-302.

402 Theory and Practice. Class 4 hours. Credit 4.

Prerequisite: Vet. Med. 301-302 and 311.

Four hundred and one and 402 deal with the different phases of infectious diseases, their diagnosis and control.

Texts for all courses are the same.

Text: Pathology and Therapeutics of the Diseases of Domesticated Animals, Hutyra and Marek.

Reference: Law, Hoare, Friedberger and Frohner.

403 Surgery. Class 3 hours. Credit 3.

404 Special Surgery. Class 2 hours. Credit 2.

These courses are a continuation of the work of the previous year, and include all of the major operations.

Text: Veterinary Surgery, Merilatt, Vols. I, II, III, IV.

Reference: Share, Jones, Cadoit and Adams.

405 Dentistry. Class 1 hour. Credit 1.

A study of the teeth of the domestic animals by aid of bones and models, and a consideration of the cause of their defects; prevention and treatment of same.

406 Milk and Dairy Inspection. Class 1 hour, laboratory 2 hours. Credit 1⅔.

In this course, classwork includes a study of the secretion of milk, its chemical properties and bacteriology; transmission of diseases of man by milk; methods of handling milk from cow to the cansumer, and methods of herd and dairy farm inspection. The laboratory work includes the more important physical and chemical bacteriological and microscopic tests.

Text: Principles and Practice of Milk Hygiene, Klein.

408 Laboratory Diagnosis. Laboratory 2 hours. Credit ⅔.

This course will include practice in the ordinary diagnostic methods with which the veterinarian should be familiar. Special attention will be given to the diagnosis of parasitic troubles and bacterial infections. Some work in urine and milk analysis will be given.

410 Meat Inspection. Class 3 hours. Credit 3.

Meat inspection takes up a review of postmortem symptoms of different diseases of food-producing animals, especially those transmissible to man. The subject is of especial importance to students who contemplate entering the Government work of inspecting meat products after graduation. Side trips are taken to the packing houses where the work of inspecting meat products is in operation.

Text: Meat Hygiene, Mohler and Eichorn.

411 Obstetrics. Class 3 hours. Credit 3.

After a brief review of obstetrical anatomy the work is devoted largely to a consideration of the different abnormal conditions arising incident to parturition and the treatment.

Text: Veterinary Obstetrics, Williams.

412 Lameness and Shoeing. Class 2 hours, laboratory 4 hours. Credit 3⅓.

Diseases of the foot and the effect of shoeing on their prevention and treatment. The instruction is of especial importance to the city practitioner.

Text: Horseshoeing, Adams; Diseases of the Foot, Reeks.

414 Clinic. Laboratory 6 hours. Credit 2.

No school of medicine is stronger than its clinic. Here the student comes in actual contact with the problems relating to the care of sick animals. Hospital accommodations are furnished, and squads of students are assigned patients as they are presented. This work tends to impress upon the student the practical phase of his previous training.

415 Clinic. Laboratory 7 hours. Credit 2⅓.

416 Jurisprudence. Class 1 hour. Credit 1.

There are certain restrictions placed on the movements of livestock from one State or county to another by the United States and State livestock sanitary commissions. Many other legal and ethical obligations are presented in the practice of the veterinarian. That he may deal intelligently with these matters, an attempt is made to outline them and their correct solution. In addition some of the fundamentals of business are outlined in the series of lectures given by different members of the Faculty of the School of Veterinary Medicine.

Description of Subjects Taught in the School of Agriculture

The following subjects are given to students in agriculture in order that they may become familiar with some of the more common diseases that every stock-owner must treat:

309 Veterinary Anatomy. Class 2 hours, laboratory 2 hours. Credit 2⅔.

A study of some of the practical points of the anatomy of domesticated animals.

310 Animal Diseases. Class 2 hours, laboratory 2 hours. Credit 2⅔.

The more common diseases of livestock are discussed in this course. The laboratory work is intended to teach the student simple operations and familiarize him with practical means of restraining animals for operative purposes. Hygiene and the disposal of animals dead of infectious diseases is brought out and special emphasis is placed on the administration of vaccines, uses of antiseptics, etc.

THE SECONDARY SCHOOL

S. A. Maroney, *Principal*
J. H. Caldwell, *Assistant Professor*
J. O. Muncie, *Instructor*
Edith B. Titus, *Instructor*
Mrs. Alice B. Traver, *Instructor*
E. B. Nelms, *Student Assistant*
D. M. Roberts, *Student Assistant*
T. L. Collier, *Student Assistant*

The Secondary School includes:

1. A Non-Vocational Course—

A standard high school for college entrance or general culture.

2. For Teachers—

All subjects required for county certificates and designed to fulfill requirements for two-year state certificate.

3. Instruction in Non-Vocational and Allied Branches of Following Courses—

(1) Vocational Agriculture, two years. See Agriculture (College) pages 31 and 56.

(2) Vocational Home Economics, two years. See Home Economics (College) page 106.

(3) Trades (auto mechanics, cabinetmaking, carpentering, machine shop), two years each. See Engineering (College) page 95.

The course contains requirements for college entrance. The formulated course requires the foundation branches with some differentiation for entrance to different courses of the A. and M. College. A wide range of electives is provided in Home Economics, Agriculture, Trades and Business Training.

The three vocational two-year courses are accepted for entrance, about 8 units. In case student decides to prepare for College after completing a vocational course, it will only be necessary to complete enough units in Non-Vocational course to make required 15 units. Such additional units must include foundational branches. See Vocational Agriculture, Home Economics, and Trades.

The requirements for a first-grade two-year State certificate are met by including subjects specified in outline.

While other work is being carried, two lessons per week in piano, voice, violin or wind instruments may be taken, for which a nominal charge is made. Students in the department have full privileges of College library, dormitories, laboratories, shops and many College activities as well as the free services of the official College physician. Male students must take military training. Physical education is required of both boys and girls. Credit of one-half of hours is allowed for military and physical training and other practice hours. Military training may be dropped when total hours for College is finished or may be continued voluntarily.

Recitation periods are fifty minutes long. Penmanship must be taken if the student is not proficient. Credit examinations are given in all branches. Grades brought from approved high schools are accepted. Work done in non-accredited high schools is received on statement by Committee of Faculty on non-accredited schools.

Full Freshman standing in College is obtained upon completion of 15 units (conditional with 14 units), which must include first three years as formulated unless a greater part of such units (8) consist of credits accepted from other high schools. Besides required branches, the complement of units comprises such subjects as will strengthen the student for the College course in view or for teacher's certificate requirements. A number of practical branches are offered to fill out the 15 units. These are found in Business Training and Vocational courses.

The course is so administered that it can be completed in from three to four years, according to amount of extra work which stronger and mature students are permitted to carry. The time required to complete it may also be shortened by grades accepted from high schools, by passing credit examinations, and by attendance during Summer Session.

Entrance to the Secondary School requires: First, that applicant be 15 years of age, if residing where a four-year high school is maintained, or 14 years of age if no such high school is maintained at his home. Second, that a diploma of graduation, or certificate of promotion from the common schools of the State be

presented, or that applicant pass an examination in reading, spelling, penmanship, geography, United States history, grammar and arithmetic, as prescribed by law. Maturity and capacity of the student to do the work are given due weight.

OUTLINE

FIRST YEAR

FIRST SEMESTER

	Cl.	Pr.
English 11	4	
Orthography 11	1	
Algebra 11	5	
Physiology 11	3	(2)
Freehand Drawing 11		(4)
Woodwork 11		(4)
Mechanical Drawing 11		(2)
Penmanship 11		(2)
Physical Education 11		(3)
Military (boys)		(3)

SECOND SEMESTER

	Cl.	Pr.
English 12	4	
Orthography 12	1	
Algebra 12	5	
Arithmetic 12	5	
Woodwork 12 (boys)		(4)
Mechanical Drawing 12 (boys)		(2)
D. A. 12 (Basketry) (girls)		(4)
Freehand Drawing 12		(4)
Penmanship 12		(2)
Physical Education 12		(3)
Military (boys)		(3)

SECOND YEAR

FIRST SEMESTER

	Cl.	Pr.
English 21	4	
Plane Geometry 21	5	
Ancient History 21	5	
Woodwork 21		(4)
and		
Mechanical Drawing 21		(2)
or		
**D. A. 21, Sewing (girls)	1	(4)
Vocal Music 21 (Teachers)	1	(1)
Physical Education 21		(3)
Military (boys)		(3)

SECOND SEMESTER

	Cl.	Pr.
English 22	4	
Plane Geometry 22	5	
Modern History 22	5	
Woodwork 22		(4)
or		
Forge 22 (boys)		(4)
or		
**D. A. 22, Sewing (girls)	1	(4)
Vocal Music 22 (Teachers)	1	(1)
Physical Education 22		(3)
Military (boys)		(3)

THIRD YEAR

FIRST SEMESTER

	Cl.	Pr.
English 31	4	
Physics 31 (S. & L., Engr.)	3	(4)
Physics 33 (all others)	3	(4)
American History 31	4	
*Agriculture (Teachers)		
Latin, French or Spanish 31 (S. & L.)	4	
Algebra 31	3	
or		
**D. S. 31 (Foods)	1	(4)
Physical Education 31		(3)
Military (boys)		(3)

SECOND SEMESTER

	Cl.	Pr.
English 32	4	
Physics 32 (S. & L., Engr.)	3	(4)
Physics 34 (all others)	3	(4)
American Government 32	4	
*Agriculture (Teachers)		
Latin, French or Spanish 32 (S. & L.)	4	
Solid Gometry 32	4	
or		
Algebra 34, (Engr.)	4	
or		
**D. S. 32 (Foods)	1	(4)
Physical Education 32		(3)
Military (boys)		(3)

FOURTH YEAR

FIRST SEMESTER

	Cl.	Pr.
Latin, French or Spanish 201 (Engr.)	3	
Education 101 (Teachers)	2	
Education 201 (Teachers)	2	
Arithmetic 41 (Engr.)	5	
Oklahoma History and Civics 41	1	
Military		(3)

SECOND SEMESTER

	Cl.	Pr.
Latin, French or Spanish 202 (Engr.)	3	
Education 102 (Teachers)	2	
Education 202 (Teachers)	2	
Geography 42 (Teachers)	3	
Military		(3)

ELECTIVES

FIRST SEMESTER	Cl.	Pr.
General Science 11	2	(4)
Arithmetic 41	5	
Algebra 31	3	
Woodword 21		(4)
and		
Mechanical Drawing 21		(2)
Typewriting	5 or 10 hrs.	
Shorthand		
Music—Piano, Voice, Violin, etc.		
College or Vocational Courses Approved		
Languages 31, 201		

SECOND SEMESTER	Cl.	Pr.
General Science 12	2	(4)
Geography 42	3	
Solid Geometry 32	4	
Woodwork 22		(4)
D. A. 12 (Basketry)		(4)
Forge 22		(4)
Typewriting		
Shorthand		
Music—Piano, Voice, Violin, etc		
College or Vocational Courses Approved		
Languages 32, 202		
A. I. G. 34	4	

*In Fall: Farm Crops 11, Livestosk 11, Dairy 21, Farm Crops 21, Fruit-Growing 21. In Spring Semester: Soils 12, Vegetable Gardening 12, Livestock 22, Farm Accounts and Management 22, Animal Diseases 22, Machinery 22.

**Four semesters of home economics are required of all girls besides Dom. Art. 12. These may be: (1) Dom. Art. 21, 22 and Dom. Sci. 31, 32, or (2) four selected from Vocational Home Economics course (see), as approved by Dean of Home Economics and Principal of Secondary School. Also additional courses may be taken in Vocational Home Economics course.

SUBJECTS

English 11, 12. Class 4 hours.

First year book for composition theory and grammar. Writing two themes a week for individual correction and revision. Two to three classics each semester. Penmanship must be taken separately if lacking. The same courses as for vocational agriculture, home economics and trades.

Orthography 11, 12. Class 1 hour.

Part of English 11, 12. Text and schedule separate from other four hours. Not required in vocational home economics, trades and agriculture.

English 21, 22. Class 4 hours.

Composition, theory and practice. Three or more classics each semester. Oral interpretation. Same as in courses for vocational agriculture, trades and vocational economics.

English 31, 32. Class 4 hours.

English 32 comprises classics and composition; English 33 in Summer Session, the same credit; English 31 is good course in English grammar. Some classics and composition.

Algebra 11, 12. Class 5 hours.

The solution of practical problems included in the aim. Pure algebra as foundation mastered thoroughly. Graphic method in equations stressed. Through quadratics and review.

Text: First Principles of Algebra, Revised, Slaught and Lennes.

Algebra 31. Class 3 hours.

Requires Algebra 11, 12.

Text: Same as for 11 and 12.

Alternate with D. S. 31 (Foods).

Algebra 34. For engineering course. Class 4 hours.

Physiology 11. Class 3 hours, laboratory 2 hours.

After physiology in common school. Taught by Science Department of College, with equipment of charts, models and apparatus.

One aim is training in laboratory methods and note-taking and scientific attitude. Lays foundation for later work in science. Gives grade on teacher's certificate.

Text: Advanced Physiology, Conn and Buddington.

Arithmetic 12. Class 5 hours.

Common operations. Principles rather than short-cut calculation. The student's language and mental method looked after. Use made of equation.

Required of all students.

Text: Complete Arithmetic, Wentworth and Smith.

Woodwork, or Manual Training. Shop 4 hours.

Course 11 required of boys and girls. Girls may take D. A. (basketry) 12 instead of woodwork 12. Mechanical drawing 2 hours, required with Woodwork 11 and may be taken with 12. Course 21 is mostly turning; 22 is cabinetmaking. When personal proficiency is acquired, many useful articles for the home are made. Courses 11, 12, 21, 22 fulfill the manual training requirements for teacher's certificate course in two years.

See Manual Training Course, College.

Freehand Drawing 11. Practice 4 hours. Credit 1-5 unit.

Art work is made valuable to the student through development of his power to see, to appreciate and to recreate. In this course the student is trained to care for appearauce of things and to become more efficient in the doing of things.

Motif for Work.—Nature interpretation and color harmony developed through medium of crayon.

Freehand Drawing 12. Practice 4 hours. Credit 1-5 unit.

Course is planned to give expression through observation of natural forms and to aid color through appreciation of naturally colored forms. Perspective principles studied and applied to drawing of still life forms; color harmony and laws of composition developed in the drawing representative of nature and nature forms.

Mechanical Drawing 11, 12. Class 2 hours each.

Reinforcement of courses in woodwork taken at the same time. Closely correlated with it and taught by Manual Training Department.

Domestic Art 12 (Basketry). Class 4 hours.

Basketry, cord, rafia and reed work. Articles made are adapted for teaching handwork in the grades.

Domestic Art 21, 22 (Sewing). Class 1 hour, practice 4 hours.

Plain stitches applied to various articles as towels, sewing aprons, etc. Patching and darning. Machine sewing. Seams. Simple undergarments. Study of textiles and fibers used.

Plane Geometry 21, 22. Class 5 hours.

After Algebra 12.

Text: Plane Geometry, Stone and Millis. Parts I and II for Courses 21 and 22, respectively.

Ancient History 21. Class 5 hours.

First half of a year's survey of whole field of history. Oriental, Egyptian, Grecian, Roman and Medieval Europe to 1789. Making of historical maps and notebooks required.

Text: Ancient Times, Breasted.

Modern History 22. Class 5 hours.
Continuation of 21. From beginning of French Revolution to date. Completes a year of general history which is accepted on a teacher's certificate. Maps and notes.
Text: Medeval and Modern Times, Robinson.

Forge 22. Shop 4 hours.
First work in blacksmithing. Iron and steel. Drawing, upsetting, welding and tempering. (Same as 12. See Vocational Agriculture.)

Vocal Music 21-22. 2 hours.
Essential work for teachers. Twenty-one and 22 are prerequisite for Public School Music. (See College.)

Physics 31. Class 3 hours, laboratory 4 hours.
Required of all students who expect to enter regular courses in Engineering and Science and Literature.
Prerequisite: Alg. 11-12; Plane Geom. 21-22.
Covers Mechanics and Heat.
Text: Physics With Applications, by Carhart and Chute.

Physics 32. Class 3 hours, laboratory 4 hours.
Required of all students who expect to enter regular courses in Engineering and Science and Literature.
Prerequisite: Physics 31 and its prerequisites.
Covers Electricity, Magnetism and Light.
Text: Physics With Applications, by Carhart and Chute.

Physics 33. Class 3 hours, laboratory 4 hours.
Required of all students not entering College Engineering or Science and Literature.
Prerequisite: Alg, 11 and 12.
Covers in an elementary way Mechanics and Heat.
Text: Physics, by Mann and Twiss.

Physics 34. Class 3 hours, laboratory 4 hours.
Required of all students not entering College Engineering or Science and Literature.
Prerequisite: Physics 31.
A continuation of Physics 31, covering Electricity, Magnetism and Light.
Text: Physics, by Mann and Twiss.

Oklahoma History and Civics 41. Class 1 hour.
The unique story of Indian consolidation and settlement of Indian Territory, and Oklahoma. Survey of State in education, industry and government. Many maps and supplementary matter used.
Required for State life certificate.

American History 31. Class 4 hours.
High school history. Gives grade on teacher's certificate.

American Government 32. Class 4 hours.
Prepares to teach in common schools. Pedagogy of subject given. Course composed of two parts, how the Government operates and how it is organized.
Text: The New American Government, Young.

Latin 31, 32. Class 4 hours. Credit ½ unit each.
Drill on the essentials of Latin grammar, acquiring of vocabulary, reading stories from Roman history, anecdotes and fables.
Text: (1) Latin Lessons, Smith; (2) Gradatim.

French 31, 32. Class 4 hours. Credit ½ unit each.

Essentials of French grammar, with the more common irregular verbs. Reading of about one hundred pages of easy prose. Careful training in pronunciation.

Text: Fraser and Squair's Short Course; Francois and Girard, Simple French.

Education 101 Elementary Psychology. 2 hours.

For teachers.

Education 102 Principles of Education. 2 hours.

For teachers.

Education 201 History of Education. 2 hours.

For teachers.

Edu. 202—Methods and Management.

All required for two-year State certificate.

These constitute the required one year in pedagogy for two-year State certificate. For description, see School of Education in College.

Geography 42. Class 3 hours.

Mostly commercial geography.

Required for teachers.

Arithmetic 41. Class 5 hours. Credit ½ unit.

Prerequisite: Arith. 12 or equivalent.

Required of engineers.

Domestic Science 31, 32. Class 1 hour, laboratory 4 hours.

Required of all girls except as by note under formulated course (above). Contents, foods and cookery.

Farm Arithmetic 21. 4 hours.

Vocational agriculture requires fundamental operations, fractions, percentage, applications to farm needs. Arithmetic 12 may be accepted as substitute.

Shop Mathematics 21, 22. Each 4 hours.

After fundamental operations for calculation, application to shop problems. Restricted to trades line of work.

Citizenship 21, 22. Each 1 hour.

General current affairs. Reports of week's news by students. Subjects used to relate student to times and give appreciation of Government and duties of citizen. No textbook. Special topics by instructor. Vocational agriculture.

General Science 11, 12, 21, 22. Class 2 hours, laboratory 4 hours.

In vocational agriculture and trades, courses 11, 12. In vocational home economics, courses 21, 22. Courses 11 and 12 equivalent to 21 and 22. Main part of content of courses the same for three vocations. Elementary physics, chemistry and biology. Unity of matter psycological rather than logical—related to life. Limited to applied science as much as possible. To be matured as outline courses. Differentiation for vocations to be developed as justified by laboratory equipment.

THE DEPARTMENT OF MUSIC

BOHUMIL MAKOVSKY, *Director*
Instructor in Brass and Reed Instruments and Band Conductor
JANE PORTER SLOSS, *Instructor in Piano*
KATE VERMILLION, *Instructor in Piano and Harmony*
C. FARNSWORTH, *Instructor in Piano, and History of Music*
VIVIAN BRENGLE, *Instructor in Piano and Theory of Music*
MAIZEE RUE BRIDGES,
Instructor in Voice Culture and Public School Music, Director of Ladies' Glee Club
MARIE H. KOHNOVA,
Instructor in Violin and Director of College Orchestra
JOSEPH JULIAN PATTERSON, *Director of Men's Glee Club*

The Department of music forms an integral part of the College, and is under the same government and discipline. But its immediate interests and specific work are under the supervision of the Director of the Department of Music. The purpose of the department is to provide opportunities for obtaining a good musical education under the auspices of the Oklahoma A. and M. College. The general plan of the work is the same as that of the best American schools of music. These courses of study are through the comprehensive, and the methods of instruction are along modern lines. The aim is to teach music, not only as an accomplishment, but also as an aid in the development of the highest type of manhood and womanhood. The intimate connection of the department with the other departments of the College presents to the students opportunities of pursuing musical and literary studies at the same time. And such a combination is strongly recommended from an educational point of view. The ultimate aim is to train for life, to use the art of music as a means of intellectual, aesthetic and moral culture.

Instruction is offered in piano, voice culture, violin, brass and reed instruments, and public school music; also in theoretical courses, including harmony, appreciation, history and theory of music, instrumentation and transposition, ear-training and conducting.

Public performances being part of the course of study in a practical subject, all students are required to participate in a program when sufficiently prepared. Students, who by reason of de-

ficient musical ability, inattention or other valid reason, fail to make satisfactory progress, may be dropped from the classes.

Practical courses include regular attendance in either Men's Glee Club, Ladies' Glee Club, Choral Society, orchestra and band, unless a student is excused by the Director of Music. The time required for the completion of the regular certificate courses in music will depend upon the student's ability, daily practice and previous work in music. Students not wishing to complete a regular certificate course may select such branches as meet their requirements, provided they are prepared to pursue them profitably.

Most of the regular College courses will allow as much as 8 credits in music to be applied for graduation. Courses in music which may be applied, and the amount of credit to be given for each semester's work:

		Hours	Cr.
1	Piano	1	1
2	Voice	1	1
3	Violin	1	1
4	Wind Instruments	1	1
5	Public School Music	2	2
6	Music Theory or Harmony	2	⅔
7	Choral Practice	2	⅔
8	Band or Orchestra, Junior or Senior	3	1

CURRICULUM IN MUSIC

FIRST YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 101	3		3
Foreign Language	3		3
Music 1a, 2a, 3a, 4a, Piano Voice, Violin or Wind Instrument	2	(6)	4
Pub. Spk. 123	2		2
Music 15, Public School Music	2		2
Music 5, Theory	2		2
Music, 50, Harmony	1		1
Music 7, History of Music	1		1
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
Eng. 102	3		3
Foreign Language	3		3
Music 1a, 2a, 3a, 4a, Piano, Voice, Violin or Wind Instrument	2	(6)	4
Music 16, Public School Music	2		2
Music 6, Theory	1		1
Music 51, Harmony	2		2
Music 8, History of Music	2		2
Physical Education		(3)	
Military Science		(3)	

SECOND YEAR

FIRST SEMESTER

	Hours		Cr.
Eng. 203	2		2
Foreign Language	3		3
Music 1a, 2a, 3a, 4a, Piano, Voice, Violin or Wind Instrument	2	(6)	4
Music 52, Harmony	2		2
Music 100, Musical Pedagogy	2		2
Elective	4		4
Physical Education		(3)	
Military Science		(3)	

SECOND SEMESTER

	Hours		Cr.
Eng. 204	2		2
Foreign Language	3		3
Music, 1a, 2a, 3a, 4a, Piano Voice, Violin or Wind Instrument	2	(6)	4
Music 53, Harmony	2		2
Music 101, Theory of Teaching	2		2
Elective	4		4
Physical Education		(3)	
Military Science		(3)	

THIRD YEAR

FIRST SEMESTER	Hours		Cr.
Music 11, Counterpoint	2		2
Music 102, Practice of Teaching	2		2
Music 104, Appreciation	1		1
Music 13, Canon and Fugue	2		2
Music 105, Instrumentation	1		1
Music 1a, 2a, 3a, 4a, Piano, Voice, Violin or Wind Instrument	2	(6)	4
Elective	3		3
Practice of Conducting	1		1

SECOND SEMESTER	Hours		Cr.
Music 12, Counterpoint	2		2
Music 103, Practice of Teaching	2		2
Music 105, Appreciation	1		1
Music 14, Musical Analysis	2		2
Music 106, Instrumentation	1		1
Music 1a, 2a, 3a, 4a, Piano, Voice, Violin or Wind Instrument	2	(6)	4
Elective	3		3
Recital	1		1

Applied Music—Piano

The technical work and compositions required for certificate of music in piano:

FIRST YEAR

Heller Studies, Op. 47, 46 and 45.
Czerney Etudes, Op. 299.
Clementi Sonatinas.
Haydn, Sonata in D major.
Beethoven, Variations and Easier Sonatas.
Mozart, Sonata in C major.
Ph. Em. Bach, Solfeggietto.
Scharwenka, Op. 62.
Schumann, Op. 68.
Pieces by modern composers.

SECOND YEAR

Czerny, Op. 299, 740.
Low, Octave Studies, Op. 281.
Krause, Trill Studies, Op. 2.
Cramer-Bulow, Studies.
Bach Two-Part Inventions.
Haydn, Sonatas.
Mozart, Sonatas.
Beethoven, Sonata, Op. 14, No. 2.
Schubert, Impromptus in E*b* and A*b*.
Mendelssohn, Songs Without Words.
Schumann, Scenes from Childhood, Forest Scenes.
Chopin, Easier Mazurkas, Waltzes, Preludes.
Grieg, Butterfly, Lyric Pieces.
Karganoff, Seven Miniatures.
Moszkowski, Valse, Op. 17.

THIRD YEAR

Clementi-Tausig, Gradus ad Parnussum.
Kullak, School of Octaves.
Bach, Three-Part Inventions.
Bach, Preludes and Fugues.
Beethoven, Sonata, Op. 31, No. 2; Op. 27, No. 2, or Op. 38.
Schubert-Liszt, "Hark, Hark, the Lark".
Mendelssohn, Scherzo in E minor.
Chopin, Etudes, Nocturnes, Polonaise. in A*b*, Ballade in A*b*.
Schumann, Novellette in F major, Papillons, Romance in F sharp.
Liszt, Consolation in A*b*.
Grieg, Wedding Day at Troldhaugen; Sonata in E minor, Op. 7.
Tschaikowsky, June, Op. 37, No. 6; Troika en Traineaux.
Sibelius, Romance in D*b*.
Schutt, A la Bien Aime.
Rachmaninoff, Prelude in G minor.

Out of the above named lists of compositions a program lasting at least one hour must be prepared, committed to memory and performed in public.

Entrance Requirements in Voice

Students desirous of studying voice as a major subject must have completed at least one year of piano or one year of sight-singing.

Voice Culture

The aim of our instruction is to secure a free, natural tone production throughout all the registers. Correct use of the breath,

intonation, attack, legato. accent, embellishments, phrasing and enunciation are the leading features of technical drill. Above all, the highest aim of art is an intelligent and refined interpretation of the words of music, maintenance and development of the personality of the student.

Such exercises, studies and songs are selected as are adapted to the capabilities of the individual student.

Candidates for certificate in voice must perform creditably in public from memory a program of the difficulty of the program given below:

"My Heart Ever Faithful" - - - - - - - - - - - - - - - - - *Bach*
"Songs My Mother Taught Me" - - - - - - - - - - - - - - - *Dvorak*
"Ave Marie - *Gounod*
"From the Land of the Sky-Blue Water" - - - - - - - - - - - *Caduian*
"Spirit Flower" - *Campbell-Tipton*
"With Verdure Clad" (from "Creation") - - - - - - - - - - - - *Haydn*
"Ma Curly-Headed Babby" - - - - - - - - - - - - - - - - - *Clutsam*
"Caro Nome Che Il Mio Cor" - - - - - - - - - - - - - - - - *Verdi*
"The Woodpigeon" - *Lehman*
"The Starling" - *Lehman*
"The Yellowhammer" - - - - - - - - - - - - - - - - - - - *Lehman*
"Recitative and aria of Lia" ("L'Enfant Prodigue") - - - - - - - *Debussy*

Violin

Entrance to this course depends on the ability of the student. Since some students are more proficient than others, less work needs be done.

Technical work required for the certificate of music in violin:

FIRST YEAR

Kelly, First Studies
Wohlfahrt, Op. 45
Kayser, Book I
Sevcik, Op. 2, Book I
Sevcik, Op. 6, Book V
Wohlfahrt, Op. 45, Book II
Kayser, Book XI
Sevcik, Op. 6, Books VI, VII
Sevcik, Op. 1, Book I
Sevcik, Op. 2, Book II
Mittell, Popular Graded Course
Lehman, 25 pieces in the first position
Dancle, Op. 123, Melodious Studies
Sitt, Op. 73
Mittell, Graded Course, Book II
Dvorak, Sonatina
Dancla, Airs Varies
Beriot, Op. 100, Scene de Ballet
Accolay, Concerto A minor

SECOND YEAR

Mazas, Book I
Sevcik, Op. 1, Book II
Sevcik, Op. 8, shifting the position
Sevcik, Op. 7, Book II
Sevcik, Op. 9, double stops
Kreutzer
Sevcik, Op. 1, Book III
Sevcik, Op. 2, Book III
Rode, Concerto No. 6
Viotti, Concerto No. 23
Mozart Sonatas
De Beriot, Air Varie
De Beriot, VI, IX (Concerto)
Spohr, Concerto No. 2.
Wieniawski, Kniawiak
Wieuxtemps, Regrets
Tschiakowsky, Melodie

THIRD YEAR

Dancla, Op. 73
Dont Gradues et parnasum
Alard, Op. 10
Nazas, Book III
Bach, Sonatas for violin alone (at least two)
Bruch, Concerto in G minor
Mendelssohn, Concerto in E minor
Wieuxtemps, Concerto in D minor
Saint Saens, Rondo Capriccioso
Ernst, Hungarian Airs
Lipinski, Concerto Militaire
Beethoven, Concerto
Paganini,Noise Fantasie
Bachs Air
Sarasate, Zigeunerweisen

Out of the above named list of compositions a program lasting at least one hour must be prepared, committed to memory and performed in public.

Department of Band Instruments

Brass Instruments.—The course in brass instruments develops a correct breath control as used by all best artists; a scientifically formed embouchure, good attack and a round, full tone. At first the pupil is asked to pay considerable attention to tone studies, lip drills and articulation exercises, from authors selected to best fit the pupil's need. Easy solo and duet pieces are introduced from time to time. A study of scales, awkward skips and slurrings is next begun, leading toward velocity studies, examples in phrasing, single and double tonguing, studies in transposition, pieces of the variation type, etc.

Reed Instruments.—This department also offers artistic work in clarinet and saxophone. In general the outlines for brass instruments equally applies, excepting that the nature of the instruments cause some points of variance.

The College Band.—This organization is directed by the instructors in this department, and is governed by the rules of the Military Department. Gives one concert a year at College Auditorium, which is followed with about a ten-day concert tour over the State. Band holds an important relation to College life by arousing school spirit, playing at the football and baseball games, track meets and at other events. In addition, students have many opportunities for solo work in the various literary societies.

Public School Music

In public schools, music has taken a very important place, and there is a growing demand for teachers who are equipped and capable of directing community music, as well as the work in the grades or high school.

Credit for work in this subject at some college or State normal school be given, but such credit should be claimed before entering the Senior year.

This course is carefully classified for each of the grades in the public schools, the work being outlined to develop the vocal ability and musical education of the pupils to suit the particular condition of the mind and the voice of the child at the average age in

each grade. Advanced work is given for those desiring special preparation. This outline is somewhat as follows:

Rote songs for little folks. "Study the "staff", "notes", "scale". Location of "do", or the keynote, in nine different keys. Sight-reading and singing, by syllable and by letter. Much attention given to tone quality and rhythm. Complete analysis of songs—as to key signature, meter signature, tempo signs, marks of expression, the different values of notes used, etc. Written work from oral dictation of tones, syllables or letters. Written work from dictation of rhythm. Transposition of songs into different keys. Special practice in music class conducting. Singing at sight, rounds, and two, three and four-part songs. Thorough practice writing and singing major, minor and chromatic scales. "Spelling" and "pronouncing" different triads or chords. A little study of the elements of harmony.

OTHER DEPARTMENTS

DEPARTMENT OF PHYSICAL TRAINING FOR MEN

E. C. GALLAGHER, *Professor of Physical Training*
*E. A. PRITCHARD, *Head Athletic Coach*

Much of the success of a young man or woman in college and in life after graduation depends on good health. The Oklahoma A. and M. College believes in the old adage, "A sound mind in a sound body". The Department of Physical Training aims to create and maintain a vigorous state of health in every student in the College, and its work is so diversified that it meets the individual needs. It strives to keep the student body in the best possible physical condition, for and during their college course, and to lay the foundation for proper living and care of the body.

Next year we will move into our new Gymnasium. It is one of the largest and best equipped gymnasiums in the Southwest, having a main floor space of 115 by 75 feet and a pool 60 by 20 feet, a locker room as large as the main floor, and two smaller gymnasiums adjacent to the main building. It also has an indoor running track and will be equiped with $10,000.00 worth of equipment. All of the lockers in the locker room are to be combination lockers of the latest make. The shower room is one of the most modern in the country, fully equipped with over twenty-four complete showers for hot and cold baths. The outfitting of the Gymiasium is being done with the idea of giving to the student body the advantages to be found in a well regulated college gymnasium.

Students of the Secondary School and Freshman classes, business and vocational courses, are required to do a certain amount of work, for which they receive credit necessary for graduation. There are also classes organized for the other students of the College.

An athletic field for football, baseball and track and field athletics is provided by the College and maintained by the Athletic Association. Students are encouraged to take part in athletic

*Resigned.

and out-of-door sports. College and class teams are organized and maintained by the Athletic Association, and each team is under the supervision of a trained instructor.

Athletics are a part of the physical training work, but whether a student participates in them or not is optional. No student is allowed to become a member of a team until he has been examined by the Director and proven that he is physically fit. A high standard of scholarship is also required of all members of the College teams.

Each student in the men's department must provide himself with a gymnasium suit so that there can be a complete change of clothing after the physical training work. This suit consists of a black, sleeveless jersey, black running trousers and soft-soled shoes. These can be procured at a local store at a cost of not to exceed $4.00.

SUBJECTS

Physical Examination—Preliminary

A thorough physical examination is required of all entering students. This examination consists of measurements, strength tests, examination of the eyes, ears, nose, throat, lunge, heart and other vital organs, and special stress is laid upon physical deformities and inequalities. These defects are pointed out to the student and exercises to correct them are prescribed. When necessary, special attention and advice are given to the student. An examination is taken at the beginning and at the end of the first year, and at the end of each year after that.

A gymnasium handbook containing chapters on personal hygiene, diet, exercise, prescription, injuries and an anthropometric table is given to each student, who is required to plat his measurements and, upon completion of the gymnasium course, the book becomes his property.

101 Physical Training (first semester).

Required of the Freshmen of the College. The work of the Freshman class in this course consists of games, athletic dancing, boxing, wrestling and mass drills, with and without hand apparatus. Graded, systematic work on all apparatus, tumbling and indoor track work. Part of the work will consist of lectures on physical educational subjects. Three times a week. Credit given. Required for graduation.

102 Physical Training (second semester).

Required of the Freshmen of the College. Advanced work on apparatus, tumbling, athletic dancing, games and drills. The latter portion of the semester will be devoted exclusively to work out of doors, with emphasis on track and field athletics. Lectures on physical educational subjects. Three times a week. Credit given. Required for graduation.

403 Physical Training (first semester).

Senior and Junior elective.

A course in the theory of coaching the four major sports of college athletics. This work includes football and basketball.

Two hours each week.

404 Physical Training (second semester).

Continunation of Course 403. This semester's work includes baseball and track and field athletics.

Two hours each week.

No student admitted to this course without the consent of the Physical Director.

501 Physical Training (first semester).

Required of students in the business class.

Similar to Course 101, but less advanced. Mass drills in class and apparatus work of the heavier type. Games, mat exercises and lectures on physical education. Three times a week. Credit Given. Required.

502 Physical Training (second semester).

Continuation of the work begun in Course 501, with basketball and track and field work in the spring. Lectures on physical education. Three times a week. Credit given. Required for graduation.

601 Physical Training.

Required of students in the Short Course in Practical Agriculture. Work in mass formation and on apparatus, with an emphasis on cordination. Lectures on personal hygiene and first aid. Three times a week.

11, 12, 21, 22, 31, 32 Physical Training.

Complete course given under the Secondary School.

701-702 Physical Training.

A. Cross-country running during the fall and spring. Those students desiring to do so may substitute a certain amount of cross-country running for the regular gymnasium work.

B. Wrestling.—A class in wrestling, in which all of the holds, breaks and counters are given, is formed. A student may substitute one hour's work a week in wrestling for one hour of his regular gymnasium work. One hour per week.

C. Boxing. Class in boxing, in which all of the blows, parries, guards and counters are given, is formed. Students may substitute one hour's work in boxing for one hour of regular gymnasium work. One hour per week.

D. Class in Fencing.—Open only to upperclassmen, with the consent of the Director.

E. Special Class.—A special class is formed for those who, on account of deformities, are unable to take the regular work of the department. The work of this class is suited to the needs of the individuals.

F. Individual corrective work for all students who show in their examination the need of such work. The idea of this work is to correct deformities so that the student may get the maximum value from the regular classwork.

G. A class is organized and maintained for Sophomore, Junior and Senior students. Meets twice a week. This work is optional with the students.

H. Advanced Gymnastic Class.—Open to all students. A special class is formed for students who desire to do advanced work on the horse, parallel bars, horizontal bar, flying rings, mats, tumbling and club-swinging. This comprises the regular gymnasium team for exhibition purposes. Three hours per week.

701-702 Physical Training. Section 1.

A swimming class will be organized for those desiring to learn to swim, and a second special class will be organized for more proficient swimmers who wish to become experts in swimming and fancy diving. Credit will be given for this work.

Athletics

Teams are now maintained in football, baseball, basketball, track and field athletics, tennis, wrestling, gymnastic work. The above forms of athletics are now recognized by the Southwest Conference, and the College gives letters to those complying with the requirements.

DEPARTMENT OF PHYSICAL EDUCATION FOR WOMEN

ANNA MILLER, *Professor*
*MARGARET UNSER, *Instructor*

The gymnasium for women, located in the Woman's Building, is an unobstructed room 32x63 feet, and is equipped with all of the modern gymnasium apparatus. There is a locker and dressing room in connection, supplied with a large number of steel lockers. There are also shower baths. In the rear of the building are the women's outdoor tennis courts.

A regular costume is required. In order that these may be uniform in pattern and color, they are ordered by the College. The cost of the suit, including shoes, is about $6.00.

At the beginning of the first semester each young woman is given a careful examination. Personal history, measurements, deformities, are taken and recorded, with an examination of the vital organs. This examination is repeated during the second semester and comparison made at both examinations with the average. Suggestions and prescriptions suited to the needs of the individual are based upon this examination.

Physical training is prescribed for all Freshman, Sophomore and Business girls, including special students, throughout the College year, three periods a week.

The prescribed courses are designed to secure a high degree of organic power, harmonious physical development, and a reasonable degree of skill and grace.

*Resigned.

SUBJECTS

101-102 Three hours per week.

Required of members of the Freshman class and Business class. The work of these classes consists of floorwork, emphasizing carriage and coordination of muscles. Movements with apparatus, progressive back and abdominal exercises are given. Plays, games, rhythms and folk dancing form an important feature of the work.

103-104.

Required of members of the Sophomore class.

This course consists largely of folk and national dances, emphasizing the characteristics of the various dances with relation to their respective nations. Folk games and plays, exercises of balance and muscular tension, and rhythms form an important part of the work.

105-106-107-108.

Optional and elective for Junior and Senior girls in the Schools of Science and Literature, Education and Home Economics.

A. Plays and Games (first semester). Credit 1.

In this course the theory of plays and games will be studied. It is also the purpose to provide explanation of and practice in a considerable number and variety of the playground games; dramatic games; traditional games and song plays; games of imitation, gesture, choosing and catching; games which appeal to the young by the stirring energy of their movement and their imaginative pantomime. Studies are made of children's games from all parts of the world, and of the simplest dances of primitive people and of the folk of Europe, or

Advanced Folk Dancing (first semester). Credit 1.

This course consists of the more advanced folk and national dances and ring games suitable for school festivals and pageants. Festival and pageants are taken up, the elements in each discussed, and outline for each suggested. Some time also is devoted to pantomime, its value and possibilities.

B. Theory of Physical Education (second semester). Credit 1.

This is a continuation of the plays and games, but the following will also be considered: History and development of physical education; growth and development of the child; personal hygiene; how to observe and criticise the work of pupils, and plan and arrange lessons. This course will also include methods and exercises used for corrective and therapeutic purposes. A general treatment of massage is given. In specific cases, insufficient osseous development, fractures, dislocations, sprains, muscular rheumatism, colds, insufficient respiratory power and neuralgia headache are considered. Or

Advanced Folk Dancing (second semester). Credit 1.

This is a continuation of the first semester's work. The history of dancing is more thoroughly studied, from the primitive dances to those of the Seventeenth and Eighteenth Centuries. The relation of music and dancing is taken up and a simple system of rhythm is added.

101 Personal Hygiene. Credit 1.

This course considers health in its social and economic aspects and presents personal hygiene as the study by means of which health

and efficiency are improved and conserved; facts and principles relating to the body's construction and function which may strengthen the argument in favor of hygienic living; improvement of health and prevention of disease.

Corrective Gymnastics:

For those unable to take the work of the regular required courses this course will be substituted. Hours to suit.

Athletics.

A. Basketball.—Each class has a basketball team, and an interclass schedule is played.

B. Baseball, Volleyball, Field Hockey and Cross-Country Walking.—Open to all classes during the months of October, April and May.

C. Tennis.—Tennis is played on the College courts during favorable weather. A tennis club is formed which is under the direction of the Girls Athletic Association. This club is open to all girls of the College. The dues are 50 cents per year.

D. The English Folk Dance Society.—This society, under the auspices of the Girls Athletic Association, was formed to further the popularity of English folk dances and songs. Meetings are held once a month in the Girls Gymnasium. It is the ambition of the society to become an authorized branch of the English Folk Dance Society of England.

E. May Festival Dances.—For the May Festival each year the Girls Athletic Association gives a May pole dance, composed of the rhythmical plays and games taught in the gymnasium throughout the school year.

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DEPARTMENT OF MILITARY SCIENCE AND TACTICS

This institution, being one of the beneficiaries of the Act of Congress of 1862, instruction in military tactics is made compulsory.

The department is in charge of an officer of the United States Army, detailed by the War Department, as professor of military science and tactics.

Military discipline is exercised with firmness, kindness and justice. It tends to cultivate habits of punctuality, alertness and the sense of personal responsibility. It also teaches attention to detail, cleanliness of person and of dress, a high sense of honor and respect for those in authority.

It helps the student to prepare himself the better for any position in life, because employers like to find men who are imbued with the idea of doing exactly as they are instructed by one who is authorized to direct them, and who have been trained to exercise quick yet sound judgment in any emergency that arises con-

cerning which they have no definite instructions. These qualities are thoroughly inculcated in any person by a military training, such as the College endeavors to give them. In addition, the drills give a graceful carriage to the student, assist in the promotion of the health of the individual, and are an added benefit to the gymnasium work of the College.

Former President Taft, on February 25, 1911, following a review of 1,400 cadets of the University of Illinois, wrote as follows to the President of that institution: "We are all in favor of college athletics, but one of the defects of athletics is the tendency to confine work to those who are naturally best adapted to it while the great student body takes no active part in the games. This is not true of military training that comes from the organization and maintenance of a school regiment."

The course of instruction is made to conform strictly to the provisions of General Order No. 70, War Department, Series of 1913, and General Order No. 49, War Department, Series of 1916. In compliance with the requirements of these orders the course is both practical and theorietical, and will be given as follows:

Practical

1. Infantry Drill.
2. Advance Guards, Rear Guards, Outposts, Messages and Orders, Signaling.
3. Marches, Map Drawing and Entrenchments.
4. Ceremonies of Review, Inspection, Parades, Escort of the Colors, and Guard Mounting.
5. Gallery Practice, Nomenclature of the Rifle, Sighting Drills, Position and Aiming Drills, and Deflection and Elevation Correction Drills.
6. Range Practice with Service Ammunition.
7. Field Problems with Blank Ammunition.
8. Duties consistent with rank as cadet officers or non-commissioned officers in connection with the practical work and exercises.
9. Special courses in military spoken French are given in connection with this department.

All students not physically disqualified are required to take the practical instruction during the entire preparatory course and in

the collegiate course until 180 hours have been completed. Hours drilled in the preparatory course count one-third.

During the first semester there will be three hours drill per week, while the second semester will be devoted to two drills per week with one hours instruction in military science in the subjects as set forth in the following table:

Theoretical Military Science

1. Infantry Drill Regulations, United States Army, 1911.
2. Small Arms Firing Manual, 1913.
3. Field Service Regulations, United States Army, 1914.
4. Manual of Guard Duty.
5. Outline of First Aid to the Injured.
6. Lectures on various military topics, such as hygiene, camp sanitation, military history of the United States, etc.

Satisfactory completion of the prescribed work is required before graduation.

Students entering the College from other institutions where officers of the Army are on duty will be given credit for the work for which they hold certificates.

Students who show aptitude for the military service are recommended for appointment as second lieutenants in the Army. Positions in the Engineer Corps of the Army are open to certain students of the Engineering Department of the College. A list of students who have shown special ability in engineering is kept by the War Department in order to be able to locate good engineers in case of need. Graduates of the College are also selected for service in the Phillipine Constabulary and are not required to take the mental examination if recommended by the College authorities.

Reserve Officers Training Corps

By giving the above course in military science this College is eligible and has been designated by the War Department to maintain a Senior Division of the Training Corps for Reserve Officers. The primary object of this advanced training is to prepare young men to perform intelligently the duties of commisisoned officers of the military forces of the United States, and it enables them to be thus trained with the least practicable interference with their civil careers.

When a student at this College has completed two years instruction in the Military Department and he has been chosen by the President and professor of military science and tactics for further instruction, he will receive pay at the rate of $125.00 per month as commutation of rations. Any members of the advanced course who attend summer camp will be furnished free by the Government one hat, two pairs of breeches and one flannel shirt, olive drab. In lieu of furnishing these articles, the student will be allowed $9.00 for the purchase of them.

In return for this the student must agree to take instruction of five hours per week during the remainder of his course and to pursue the camp training prescribed during such period by the Secretary of War. This camp training will not exceed two of four weeks each. Ordinarily one will be attended at the end of the Junior year and the other subsequent to graduation. In case the student prefers to attend a camp during his first two years in the collegiate course, he will be given full credit for such attendance.

The camp to be attended subsequent to graduation may be omitted in case the graduate applies for and receives the appointment of temporary second lieutenant in the Regular Army for a period of six months, with pay at $100.00 per month and allowances.

At the conclusion of the camp subsequent to graduation, or when the graduate receives an appointment as temporary second lieutenant in the Regular Army, he may apply for and be appointed an officer in the Reserve Corps. Upon being appointed the graduate must agree to serve as a reserve officer for ten years, and he will attain the rank in the reserve corps according to his length of service in it. He cannot without his consent be called out for service in a lower grade than that held by him in the reserve corps, and whenever called into the service will receive the full pay and allowances of his grade. The minimum for a second lieutenant is $1,700.00 per annum, with quarters, heat and light.

In time of peace he may be called into service for instruction with troops during field exercises for not to exceed fifteen days in any one calendar year. In time of actual or threatened hostilities, the reserve officers will be the first to receive commissions in the volunteers.

Under the advanced course are included the following subjects:

1. Military Organization. Property Accountability.
2. Service of Security and Information.
3. Personal Hygiene.
4. Camp Sanitation and Camping Experients.
5. Military Sketching.
6. Studies in Minor Tactics.
7. Map Maneuvers.
8. Elements of International Law.

Lectures on International Relations of America, General Principles of Strategy, Psychology of War, Military History and Policy of the United States.

Equipment

The War Department has supplied the College with 500 U. S. magazine rifles, cal. .30, Model of 1898; 18 U. S. magazine rifles, cal. .22, and 600 sets of infantry equipment. Swords, targets, target supplies, ammunition for all rifles and cleaning material are furnished to the College free of charge by the War Department.

All students that take military training will be furnished free by the Government a uniform consisting of—

1 Coat, wool O. D.
1 Breeches, wool O. D.
1 Shoes, russet or marching
1 Shirt, wool O. D.
1 Overcoat, O. D., short
1 Leggins, pair, canvas
1 Hat, service
2 Collar ornaments
1 Hat cord
1 Belt
Chevrons

Additional for those attending summer camps:

2 Breeches, cotton O. D.
1 Shoes, russet or marching
1 Shirt, wool O. D.
1 Leggins, pair, canvas
1 Hat additional
1 Hat cord

Besides the infantry course (now established) the College in the near future expects to establish units of the engineering and field artillery courses.

Organization

All young men are required to enroll in the Military Department.

Those who are entitled to be excused must at the time they enroll make a written application to be placed on the unassigned list. All students who are on the unassigned list will be excused from all military duty.

The Corps of Cadets has been organized into a regiment consisting of a band and two battalions of three companies each.

Each year the names of all the company officers of the best drilled company and company letters are engraved on a silved band and placed on the staff of the College flag.

The beautiful Drummond cup will be awarded annually for individual excellence in the Military Department.

The commissioned officers, as a reward for excellent service, are presented by the College with an engraved commission and a saber upon graduation.

Officers are selected from senior members of the Reserve Officers Training Corps.

Rifle Club

The Rifle Club of the College is a part of the National Rifle Association of America. All firing is under the supervision of a judge selected by the N. R. A. Medals and qualification insignia are furnished by the War Department.

Officers of the Club: President and captain, E. L. Chase; secretary, N. M. Walker; treasurer, G. N. Douglas.

AGRICULTURAL EXPERIMENT STATION

The Agricultural Experiment Station was located at the A. and M. College at Stillwater in July, 1891, under a provision of an Act of Congress approved March 2, 1887, commonly known as the Hatch Act, and entitled "An Act to establish Agricultural Experiment Stations in connection with colleges established in the several States under the supervision of an Act approved July 2, 1862, and of Acts supplementary thereto". The objects of the Experiment Station are clearly set forth in the second section of the Act as follows:

> "That it shall be the object and duty of said Experiment Stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued in a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of different kinds of foods for domestic animals; the scientific and economic questions in the production of butter and cheese; and such researches and experiments bearing directly on the agricultural industry in the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and Territories."

At the present time the Oklahoma Agricultural Experiment Station receives funds for its support from two sources, namely:

The Hatch and Adams appropriations are received from the Federal Government in amounts of $15,000.00 each per annum, as provided for by Act of Congress, March 2, 1887, and March 16, 1906, respectively. The Experiment Station also has use of certain State funds appropriated from the general College funds, and set aside by the State Board of Agriculture for maintenance and support of the Experiment Station. During the past fiscal year this latter fund was about $5,000.00. This does not include the cost of heating, lighting, janitor service and other items of general administrative expense. This makes a total of $35,000.00, which has been the amount received per annum for the past several years.

Under the Federal law, the Adams fund must be spent strictly

for original research of approved character, and may not be used for general administration, for printing or for farm demonstrations. The Hatch appropriations may be used for general research, for general administration of the Station, and for printing. The State funds received through appropriation by the Board of Agriculture may be used for general maintenance purposes as well as research.

Two rather broad general divisions are recognized in the work of the Station. The one includes investigational work of an original nature of a character which satisfies the requirements of the Adams Act. This work is usually such that it covers a period of years, and of such nature that it seeks to discover underlying principles and truths which may have a bearing upon some phase of the science of agriculture. The studies to come in this general division must be exhaustive and results should be a distinct addition to the science of agriculture. All other work of a research nature, which may not necessarily be original, or of the highest type, which is carried on at the Experiment Station, is grouped in the second division. Many of the subjects of research are not designed to be exhaustive, but rather to answer many of the immediate questions which should be answered for the people of the State who are directy or indirecty interested in agricuture. Upon the other hand, investigations begun and classed in the second division many times develop to the point that they are placed in the first division.

At present the lines of investigation pursued include experiments in soils, crops and fruits; breeding of livestock; feeds and feeding; insect pests, economic insects; poultry and egg production and poultry feeding; plant and animal parasites, plant and animal distases, and their control and eradication; butter, cheese and ice cream manufacture, etc.

The investigations are designed especially to further the progress of agriculture in Oklahoma, with special reference to the soil and climatic conditions.

This very wide range of investigational and experimental work is of itself an educational feature of the College. Students have opportunities to study methods of attacking problems, and many of them are employed in the laboratories and experimental plats, where they may study problems at first hand.

Each year an annual report is published giving a resume of the work accomplished the past year. Short articles are often included. These reports become a valuable history of the work and progress of the Station.

The results obtained in the various lines of experiment work are published in bulletins. In addition to the regular bulletns, giving the results of this work, a series of popular publications known as circulars are issued from time to time as conditions would seem to warrant to be used by the extension service in distributing valuable information to the farmers.

A mailing list is maintained which numbers at the present about 17,000 names, principally of farmers, in various parts of the State. Any citizen of the State interested in agriculture may have the bulletins and other publications from the Station sent free on application to the Director of the Experiment Station asking to have his name placed upon the regular mailing list.

Such portions of the College farm, which comprises about 1,000 acres, as are needed for Experiment Station and research work, are set aside for this purpose; also such livestock as is needed for feeding experiments is utilized by the Station men. All the scientific laboratories of the College are available for research work, and many of the scientific departments of the institution are interested in carrying on different projects under the supervision of the Experiment Station officers.

THE EXTENSION DIVISION

During the past fifteen months the extension workers of the A. and M. College have become so well known over the State of Oklahoma that it is not necessary to make any explanation as to the nature of the work of the Extension Division of the College.

Since the United States entered the war a county agent has been working in each of the seventy-seven counties of the State, and in several of the larger counties there havs been assistant county agents. There are also fifty women agents and four assistants in the State,and eleven urban women agents. It is now planned to maintain the wartime organization on a peace basis.

These agents have been foremost in their respective counties in all work pertaining to greater crop production, the preservation and conservation of food and feeds, Liberty Bond and War Savings Stamp drives and in Red Cross and Y. M. C. A. work; in fact, any work in which they can be of service to the Nation. They are now the leaders in building up community organizations for permanent agricultural development.

District Agents.—In order that the work of the men county agents be more carefully supervised, the State has been divided into six districts, which are each under the supervision of a district agent. There are also two district agents for women's work. The district agents visit the counties in their districts regularly and assist and instruct the county agents in all matters pertaining to their work, and thus keep the field forces in close touch with the College and the United States Department of Agriculture.

Special Agents.—Beside the county men and women agents and district agents, there are a number of specialists or special agents, who assist the county agents in particular lines of work; for instance, the Bureau of Animal Industry of the United States Department of Agriculture has furnished the Extension Division of the College with two special agents in dairy work, three in Poultry Club Work, one in Livestock Club work, and one in control of hog cholera.

The Bureau of Markets furnishes a special agent in preparing, storing, curing and marketing pork products.

The Bureau of Entomology furnishes a special agent in bee-keeping. We also have three special agents in home demonstration work, one each in rural sanitation, farm management, farm labor, horticulture and gardening, and farm engineering.

Fairs.—Special work has been done, and will be done, to encourage and aid in the holding of community and county fairs, which lead up to exhibits of agricultural, livestock and home products at the State Fairs. Schools will be held at the State Fair and the New State Fair for club prize-winners. Nineteen scholarships in the A. and M. College and numerous smaller prizes will be awarded in the various club contests.

During the calendar year 1918 the men agents made 74,540 visits to the farmers, club members and others. They traveled 426,971 miles by auto, team and railroad. They addressed 6,695 meetings at which the total approximate attendance was 382,074. They wrote 41,528 official letters and prepared and sent out 67,839 circular letters, besides writing 2,364 articles for publication.

The fifty home demonstration agents the past year worked with the women and girls in each of their respective counties. They encouraged rural families to provide more and better food at low cost, encouraged club members to obtain a better education, enabled the girls and women on the farms to raise more and better poultry, thus increasing the State's meat supply, and increasing the family income. They endeavored to make life in rural communities more attractive, and through all these avenues to make better homemakers and thus better Oklahoma citizens. These agents supervise the Canning, Poultry and Better Bread Clubs for girls, and Home Demonstration Clubs for women.

The total number of girls enrolled during 1918 was 5,426,and 778 women were enrolled in home demonstration work.

The women agents supervised the work of the Canning Club girls, who reported that they had produced 121,592 pounds of vegetables and canned 13,714 containers of the same, the total value of all products canned by girls being $11,484.11.

The total number of cans and jars canned by women was 178,155 and total number of pounds of dried fruits and vegetables stored was 49,773, gallons of buried vegetables was 126,843.

The total value of all products saved by women last year under direction of agents was $471,804.03.

The total value of all poultry work in 1918 for women and girls was $183,043.83.

The Boys Club work, as organized and supervised by the Extension Division of the A. and M. College, has for its object the instruction of rural boys in approved methods of crop and livestock production, and the increasing of soil fertility, with a view of increasing the financial condition of the farmers of the future, thereby providing for better homes, better schools, better social and moral conditions, and consequently a higher citizenship.

The club activities supervised for white boys for the year 1918 are as follows:

Corn, Grain Sorghum (kafir, milo, feterita), Cotton, Peanut, Wheat, Three-Crop (Crop Rotation), Pig, Calf (dairy and beef), Sheep, Poultry, Honey Bee and Potato.

The total number of boys enrolled in 1918 was 28,500 regular members. In addition to the above, 11,485 were enrolled as emergency members as a war measure. These boys, with the Girls Club members, were organized into 1,034 club organizations, with regular officers elected and holding regular monthly meetings.

Club Members Made the Following Records

Crop	Average Yield	Highest Yield
Corn	28 bu.	87 bu.
Cotton	612 lbs.	2800 lbs.
Grain sorghum	21½ bu.	72 bu.
Peanuts	28½ bu.	118 bu.
Wheat	18.6 bu.	43 bu.

Average Profits

Pig Club	$ 70.00
Calf Club	106.37
Sheep Club	114.88

Instructional work is carried on through the personal efforts of the county agents, the club rallies, short courses and contests conducted by the county, district and State Club agents, and by means of bulletins and circular letters.

It is impossible to give a comprehensive view of the work of the Extension Division in such a brief article.

ACCREDITED SCHOOLS

Students who have completed the course of study in accredited schools will be given credit at the A. and M. College according to the following schedule:

List 1

Graduates from the following schools will be accepted for 15 or more units credit:

Ada
Afton
Aline
Altus

Bartlesville
Beaver
Beggs
Billings
Blackwell

Carmen
Caddo
Calvin
Calumet
Carnegie
Carney
Chandler
Checotah
Chelsea
Cherokee

Davis
Dewey
Driftwood
Drummond

Eldorado
Elk City
Elmore
El Reno

Fairfax
Fairview

Geary
Glenpool
Granite

Haileyville
Hartshorne

Alva
Amber
Anadarko
Antlers

Blair
Blanchard
Boswell
Braman
Braxton C. D.

Chickasha
Academy Oklahoma College for Women, Chickasha
Claremore
Cleveland
Clinton
Coalgate
Collinsville
Comanche

Drumright
Duncan
Durant

El Reno Sacred Heart Academy, El Reno
Enid
Eufaula

Francis
Frederick

Grove
Guthrie
Guymon

Hennessey
Henryetta

Apache
Arapaho
Ardmore
Atoka

Bristow
Britton
Broken Arrow
Broken Bow

Copan
Academy Cordell Christian College, Cordell
Cordell
Coweta
Crescent
Cushing
Custer City

Durant Presbyterian College for Women, Durant

Phillips University Academy, Enid
Erick

Fort Gibson
Fort Towson

Oklahoma Methodist University Academy Guthrie

Hollis
Hominy

Haskell
Headrick
Helena
Heavener
Hinton
Hitchcock
Hobart
Holdenville
Hugo
Hydro

Idabel
Ingersol Stella Friends, Ingersol

Jefferson
Jenks
Jet

Keota
Kingfisher
Kiefer
Kingfisher College Academy, Kingfisher
Kiowa
Konawa

Lambert
Lamont
Laverne
Lawton
Lawton Cameron State School of Agriculture
Lehigh
Lexington
Lindsay
Lone Wolf
Luther

McAlester
McLoud
Madill
Mangum
Marietta
Marlow
Marshall
Maud
Medford
Miami
Milburn
Mill Creek
Minco
Mooreland
Morris
Mounds
Mountain View
Muldrow
Muskogee
Oklahoma School for the Blind, Muskogee

Newkirk
St. Francis Academy, Newkirk
New Wilson
Ninnekah
Norman
Nowata

Oilton
Okeene
Okemah
Oktaha
Okfuskee County High School, Paden
Oklahoma City
St. Mary's Academy, Oklahoma City
Okmulgee

Pauls Valley
Pawhuska
Pawnee
Perry
Ponca City
Pond Creek
Porum
Poteau
Prague
Preston
Pryor
Purcell

Ramona
Ringling
Roff
Ryan
Rush Springs

St. Joseph's Academy Guthrie
Sallisaw
Sand Springs
Sapulpa
Sayre
Seminole
Shamrock
Shawnee
Shattuck
Snyder
Stigler
Stillwater
Stilwell
Stroud
Sulphur
Supply

Talala
Tecumseh
Temple
Texhoma
Thomas
Tishomingo
Murray State School of Agriculture, Tishomingo
Tonkawa
Tyrone
Academy, Henry Kendall College, Tulsa
Tulsa
Tuttle

Vinita

Wainwright
Wakita
Walter
Connors State School of Agriculture, Warner
Wapanucka
Watonga
Waukomis

Waurika
Waynoka
Weatherford
Welch
Weleetka
Wewoka
Wilburton
Woodward
Wynnewood
Yale
Yukon

List 2

Graduates from the following schools will be accepted for 12 to 14½ units credit:

Bearden
Bennington
Bluejacket
Byars
Capron
Council Hill
Deer Creek
Dustin
Fletcher
Forgan
Gage
Garber
Lawrence Friend's Academy, Gate
Harmon
Hillsdale
Jennings
Kingston
Dundee School, McMann
Porter
Perkins
Quinton
Randlett
Reed
Rocky
Spiro
Startford
Stuart
Tupelo
Wellston
Woodville
Wakita Consolidated District

List 3

Graduates from the following schools will be given 8 to 11½ credits. Necessary work for additional credits may be taken in the Secondary School at the A. and M. College:

Balko
Big Cabin
Bigheart
Boynton
Canadian
Centralia
Dacoma
Dale
Dale Valley Grove
Deer Creek
Depew
Fitzhugh
Foyil
Gotebo
Harrah
Howe
Hunter
Ingersol
Kaw City
Krebs
May
Mountain Park
Putman City Consolidated No. 1
Red Oak
Sasakwa
Skedee
Talihina
Valliant
Vici
Washington
Wister

List 4

Graduates from the following list of schools will be given from 4 to 7½ credits, and will be expected to make up the remainder of the necessary credits in the Secondary School of the A. and M. College:

Douglas
Edmond
Garvin
Gray, Blue Mound
Goltry
Gowan
Ochelata
Okarche
Red Rock
Sparks

A. & M. MEN IN MILITARY SERVICE

Rank	Names	Branch of Service	Home Address
Corporal	Abbott, Leo		Stillwater, Okla.
Sergeant	Abbott, Ray	Engineers	Stillwater, Okla.
Private	Abercrombie, Hugh	Band	Cashion, Okla.
Lieutenant	Abernathy, Oscar	Artillery	Hollis, Okla.
First Lieutenant	Abercrombie, Russell	Infantry	Cashion, Okla.
	Adams, Francis		Ponca City, Okla.
*Lieutenant	Ahern, Ralmond	Infantry	Ardmore, Okla.
Sergeant	Aikins, Lee R.	Ambulance	Stillwater, Okla.
First Lieutenant	Aikins, V. W.	Infantry	Lamont, Okla.
	Aynsworth, James		Childress, Tex.
Private	Alcott, Arthur B.		Stillwater, Okla.
Private	Alcott, Leslie	Infantry	Stillwater, Okla.
*Lieutenant	Allen, H. S.	Artillery	Uncas, Okla.
	Allen, R. H.	Navy	Medford, Okla.
Major	Alley, John	Infantry	Norman, Okla.
Lieutenant	Alnutt, Garnett	Infantry	Stillwater, Okla.
First Lieutenant	**Amspacher, James	Engineers	Quay, Okla.
Sergeant	Anderson, H. D.	Hospital	Fairmont, Okla.
Lieutenant	Anderson, Horace	Aviation	Stillwater, Okla.
Sergeant	Anderson, P. K.	Railroad Engineer	Gotebo, Okla.
Second Lieutenant	Anderson, Roy L.	Infantry	Stillwater. Okla.
*Lieutenant	Andrew, Carl S.	Machine Gun	Stillwater, Okla.
Lieutenant	Andrews, Horace	Aviation	Stillwater, Okla.
Corporal	Andrews, Leonard R.	Coast Artillery	Stillwater, Okla.
Private	Andrews, Myron E.		Ames, Okla.
Private	Arabajian, H. K.	Infantry	Yettem, Calif.
Corporal	Arnold, T. Nason	Ordnance	Beggs, Okla.
Private	Atkinson, Roy	Field Artillery	Stillwater, Okla.
Private	Atherton, Ray	Infantry	Stillwater, Okla.
Corporal	Ault, Wayne	Medical	Blackwell, Okla.
First Lieutenant	Austin, James	Infantry	Muskogee, Okla.
Lieutenant	Autrey, Chas.	Artillery	Cushing, Okla.
Corporal	Autrey, E. T.	Infantry	Cushing, Okla.
Second Lieutenant	Aycock, Tom	Engineers	Altus, Okla.
Sergeant	Bailey, Warren	Naval Reserve	Snyder, Okla.
	Baker, Dee		Kingfisher, Okla.
Chief Master Mechanic	Baker, De Larue	Naval Aviation	Tulsa, Okla.
Lieutenant	**Baker, John	Aviation	Stillwater, Okla.
	Baldwin, Kenneth		Anadarko, Okla.
Private	Ball, Chas.	Aviation	Arapaho, Okla.
Lieutenant	Ball, Arthur		
Lieutenant	Ballew, Waldo M.		
	Banks, Hugh	Artillery	Hobart, Okla.
Second Lieutenant	Bard, Neil	Engineers	Guthrie, Okla.
	Barnes, Luster	Infantry	Pocassett, Okla.
	Barrett, Flavius	Infantry	
Lieutenant	Barricklaw, C. D.	Field Hospital Unit	Keokuk Falls, Okla.
	Barron, Merle	Naval Reserve	Stillwater, Okla.
	Barron, W. R.	Research Aviation	Stillwater, Okla.
	Bartlett, Thomas		Drummond, Okla.
Private	Barton, Roy	Air Service	Bison, Okla.
	Bass, Harry		Elk City, Okla.
	**Bass, James F.	Infantry	Elk City, Okla.
Sergeant	Bates, Floyd	Infantry	Billings, Okla.
	Bauman, C. W.	Engineers	Bessie ,Okla.
Sergeant	Beard, Fred	Transport Service	Snyder, Okla.
Sergeant	Beard, John	Infantry	Stillwater, Okla.
Private	Beaver, Wm.	Aviation	Oklahoma City, Okla.
Captain	Beck, Paul V.	Cavalry	Hunter, Okla.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
First Lieutenant	Beck, Will	Infantry	Hunter, Okla.
Corporal	Becker, Edgar	Field Artillery	Pueblo, Colo.
Lieutenant	Becker, W. J.	Field Artillery	Cleveland, Ohio.
Chauffeur	Bentley, A. E.	Air Service	Yukon, Okla.
Sergeant	Berry, Cecil	Engineers	Delaware, Okla.
Sergeant	Berry, I. B.	Infantry	Stillwater, Okla.
Captain	Berry, James	Infantry	Stillwater, Okla.
Sergeant	Bertrand, Tom	Machine Gun	Agra, Okla.
	Bessire, Tom	Infantry	Headrick, Okla.
Lieutenant	Best, Robert P.	Infantry	Wagoner, Okla.
Private	Betty, Willis	Infantry	Emporia, Kans.
Lieutenant	Bilyeu, Floyd M.	Infantry	Stillwater, Okla.
	Bingham, Carl		
	Bingham, H. B.		
Sergeant	Bishop, Deane A.	Engineers	Stillwater, Okla.
	Bishop, Wm. J.	Infantry	Madison, Kans.
Corporal	Bissell, Ernest F.	Infantry	Doby Springs, Okla.
Seaman	Blazier, Warren E.	Navy	Lawrence, Kans.
First Lieutenant	Black, James	Infantry	Wapanucka, Okla.
Sergeant	Black, W. C.	Infantry	Stillwater, Okla.
Sergeant	Blanton, Clarence S.	Headquarters Co.	El Reno, Okla.
	Bloom, Chas.	Meteorology	Tulsa, Okla.
Sergeant	Boldman, Millard	Aviation	Walters, Okla.
Sergeant	Boley, A. L.	Navy	Washington, D. C.
Corporal	Bollen, Waldo	Infantry	Stillwater, Okla.
Seaman	Bollinger, Philip H.	Naval Reserve	Kiowa, Okla.
Private	Bonar, B. B.	Infantry	Stillwater, Okla.
	Bonar, Howard T.	Infantry	Kansas City, Okla.
Sergeant	Bonham, V. A.	Infantry	Sallisaw, Okla.
	Booth, Claude	Infantry	
	Booth, V. J.	Infantry	Caddo, Okla.
	Bose, Edward J.		
Motor Mechanic	Bottger, E. J.	Air Service	Oklahoma City, Okla.
	Bowling, James L.		
Lieutenant	Bowles, Harry	Aviation	Marksville. La.
Nurse	Boydston, Ethel	Red Cross	
Corporal	Bowen, Howard	Aviation	Sayre, Okla.
Second Lieutenant	Boyd, O. C.	Infantry	Hooker, Okla.
Lieutenant	Boyd, Homer C.	Infantry	Hooker, Okla.
Second Lieutenant	Braden, J. B.	Infantry	Stillwater, Okla.
Corporal	Bradford, Daniel	Mechanic	Goodwell, Okla.
	Braley, Lonnie O.		
Sergeant	Braly, Byron B.	Air Service	Leonard, Tex.
Sergeant	Braly, Warren B.	Band	Leonard, Tex.
	Brandenburg, C. H.		
Corporal	Branham, Joe	Medical	Hobart, Okla.
Corporal	**Brantley, Clyde	Infantry	Goodwell, Okla.
Sergeant	Brattin, M. E.	Depot Brigade	Stillwater, Okla.
Quartermaster	Brattin, Noble	Navy	Stillwater, Okla.
Corporal	Brattin, W. F.	Infantry	Capron, Okla.
First Class Gunner	Brazelton, F. A.	Coast Artillery	Honolulu, Hawaii.
Corporal	Brazelton, Sam	Artillery	Stillwater, Okla.
Lieutenant	**Breeding, Bland		Holdenville, Okla.
*Lieutenant	Brewer, C. E.	Field Artillery	Covington, Okla.
	Bridges, Ward	Infantry	
Lieutenant	Bright, Meredith	Artillery	Oklahoma City, Okla.
Second Lieutenant	Briscoe, Jack	Artillery	Perry, Okla.
Sergeant	Brodell, L. J.	Engineers	Keystone, Okla.
	Bronaugh, W. M.	Infantry	Mounds, Okla.
	Brown, J. Floyd		Purcell, Okla.
	Brown, L. C.	Infantry	Guthrie, Okla.
Sergeant	Brown, W. E.		Drummond, Okla.
Third Cl. Musician	Brian, Carl J.	Naval Band	Newkirk, Okla.
Sergeant	Bryan, Kenneth	Infantry	Stillwater, Okla.
Lieutenant	Buddy, Edward L.	Field Artillery	Dallas, Tex.
Lieutenant	Buddruss, Edward	Infantry	Muskogee, Okla.
First Lieutenant	Bullen, Bernard C.	Medical	Ashville, N. C.
Lieutenant	Bullen, Lynn	Aviation	Anadarko, Okla.
Corporal	Bumpus, Walter	Machine Gun	Cheyenne, Okla.
Sergeant	Bunyard, C. L.	Hospital	Stillwater, Okla.
Lieutenant	Burnham, Henry	Infantry	Stillwater, Okla.
	Burke, F. E.	Infantry	Perry, Okla.
	Burke, M. P.	Meteorology	Perry, Okla.
First Lieutenant	Burke, W. J.	Coast Artillery	Stillwater, Okla.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
Private	Burkhead, Leonard	Infantry	Piedmont, Okla.
	Burkhead, Eugene		Piedmont, Okla.
	Busey, Ralph L.	Infantry	Holdenville, Okla.
First Lieutenant	Butler, Joe B.	Engineers	Omega, Okla.
Corporal	Butler, James O.	Machine Gun	Walter, Okla.
	Butts, Edward	Infantry	Crowder, Okla.
Sergeant	Byars, Clarence		Ardmore, Okla.
Sergeant	Byars, Claude	Infantry	Sallisaw, Okla.
Sergeant	Bynum, Willie	Infantry	Bartlesville, Okla.
Corporal	Byrd, John H.	Infantry	Ardmore, Okla.
Petty Officer	Caha, Ernest	Navy	Prague, Okla.
Second Lieutenant	Caldwell, Vilgil E.	Infantry	Stillwater, Okla.
	Calloway, F. S.	Infantry	Duncan, Okla.
*Lieutenant	Calloway, S. C.	Infantry	Duncan, Okla.
Sergeant	Camp, H. W.	Infantry	Pauls Valley, Okla.
Lieutenant	Campbell, H. D.	Machine Gun	Wewoka, Okla.
Lieutenant	Campbell, Jeff	Field Artillery	Mangum, Okla.
Lieutenant	Canfield, Ralph	Infantry	Yale, Okla.
First Lieutenant	Cantwell, J. W., Jr.	Aviation	Stillwater, Okla.
Second Lieutenant	Cantwell, Robt. W.	Infantry	Stillwater, Okla.
Second Lieutenant	Carlson, Floyd B.	Infantry	Meno, Okla.
Lieutenant	Carlton, Oscar		McLoud, Okla.
Seaman	Carlton, W. E.	Navy	Anson, Tex.
Corporal	Carpenter, Edward	Quartermaster	Bridgeport, Okla.
*Lieutenant	Carpenter, Chas. L.		
	Carter, Lew		Madill, Okla.
Private	Carter, L. Roy	Signal Corps	New Market, Tenn.
Captain	Carter, J. H.	Infantry	Stillwater, Okla.
Second Lieutenant	Cash, M. A.	Radio	Temple, Okla.
	Cash, Patterson S.	Quartermaster	Pauls Valley, Okla.
Private	Casida, Victor M.		
Lieutenant	Cass, Early R.	Artillery	Tulsa, Okla.
Master Mechanic	Cassey, A. B.	Navy	Prague, Okla.
Sergeant	Cavett, John	Infantry	Stillwater, Okla.
Major	Chambliss, Hardee	Ordnance	Washington, D. C.
Sergeant	Chase, M. W.	Hospital	Ralston, Okla.
	Chase, H. Price		Nowata, Okla.
Corporal	Childers, Manford	Marine	Stillwater, Okla.
Sergeant	Chivington, Fred I.	Infantry	Chico, Calif.
Sergeant	Chivington, C. O.	Infantry	Chico, Calif.
Lieutenant	Choate, George R.	Infantry	McAlester, Okla.
Sergeant	Choate, Tuska	Infantry	Indianola, Okla.
Midshipman	Clapp, Vernon O.	Navy	Poteau, Okla.
Sergeant	Clark, Gordon	Infantry	Minneapolis, Minn.
Ensign	Clark, Joe	Navy	Chelsea, Okla.
Lieutenant	Clausen, Chester	Infantry	Stillwater, Okla.
Second Lieutenant	Clausen, Curtis	Coast Artillery	Stillwater, Okla.
First Lieutenant	Clausen, R. E.	Infantry	Berkeley, Calif.
	Clayton, LeRoy	Band	Dill, Okla.
	Clem, Harrison		Pawhuska, Okla.
Corporal	Clemmer, Harry	Infantry	Woodward, Okla.
	Clingenpeel, Stanley	Artillery	Stillwater, Okla.
Lieutenant	Clingenpeel, E. G.	Infantry	Stillwater, Okla.
Sergeant	Cloughley, Harmon	Engineers	Madison, Wis.
	Coats, J. H	Artillery	Pryor, Okla.
Sergeant	Cobb, A. L.	Ordnance	Eddey, Okla.
Sergeant	Cobb, C. C.	Engineers	Arapaho, Okla.
Second Lieutenant	Coburn, Carroll	Engineers	Washington, D. C
	Cochran, Lee		Omega, Kans.
	Colbert, Rufus	Coast Artillery	Antlers, Okla.
Corporal	Colbera, Richard	Aviation	Ada, Okla.
Sergeant	Coldiron, Reed	Medical	Pond Creek, Okla.
Private	Coleman, Lester	Aviation	Red Rock, Okla.
	Coles, George	Infantry	Snyder, Okla.
Lieutenant	Colglazier, Ray	Infantry	Stillwater, Okla.
	Collins, Thos. W.	Signal Corps	Oklahoma City, Okla.
Bugler	Conrad, J. O.	Quartermaster	Rankin, Okla.
Captain	Connor, Russell J.	Medical	Eagle Rock, Calif.
Corporal	Conner, W. Lee	Motor Transport	Hobart, Okla.
Second Lieutenant	Conn, Julian	Engineers	Dustin, Okla.
First Lieutenant	Connell, Wm.	Motor Transport	Dallas, Tex.
Sergeant	Cook, H. P.	Meteorology	Guthrie, Okla.
Corporal	Cooley, Clyde	Field Artillery	Bridgeport, Okla.

*In training camp when armistice was declared.

Rank	Names	Branch of Service	Home Address
Lieutenant	Cooley, W. A.	Artillery	Bridgeport, Okla.
	Cooley, D. F.	Infantry	Drumright, Okla.
Lieutenant	Cooter, J. H.	Infantry	Miami, Okla.
Second Class Musician	Coppedge, W. H.	Naval Band	Stillwater, Okla.
Captain	Corbett, John	Infantry	Laramie, Wyo.
Lieutenant	Corbin, B. O.	Engineers	Schenectady, N. Y.
Sergeant	Corkill, W. E.		Cushing, Okla.
Second Lieutenant	Correll, V. I.	Infantry	Stillwater, Okla.
Sergeant	Correll, L. E.	Infantry	Stillwater, Okla.
	Cossey, Augus B.	Navy	Edmond, Okla.
Sergeant	Courtney, M. C.	Air Service	Edmond, Okla.
	Coulter, Jim D.		
	Covelle, L. K.		Stillwater, Okla.
Corporal	Cox, Asa	Aviation	Stillwater, Okla.
Corporal	Cox, A. H.	Infantry	Stillwater, Okla.
Seaman	Cox, Bill	Navy	Stillwater, Okla.
Corporal	Cox, D. Clyde		Tyrone, Okla.
Sergeant	Cox, Floyd	Infantry	Stillwater, Okla.
Chief Fireman	Cox, W. E.	Navy	Stillwater, Okla.
Corporal	Cozad, Clyde	Infantry	Gerty, Okla.
Corporal	Crabtree, E. C.	Medical	Steedman, Okla.
	Crane, Chester	Aviation	Arapaho, Okla.
Second Class Yeoman	Crawford, Lee R.	Navy	Altus, Okla.
	**Crawley, Harold	Infantry	Oklahoma City, Okla.
Chief Gunner and Engineer	Crocker, Lee D.	Navy	Columbus, Mo.
Sergeant	Crockett, Fred L.	Medical	Stillwater, Okla.
Private	Crockett' Glen E.	Infnatry	Medford, Okla.
	Crockett, George		Jefferson, Okla.
Sergeant	Crofford, Wm.	Medical	Tucumcari, N. M.
	Craft, Martin		Stillwater, Okla.
Corporal	Crouse, Paul	Infantry	Stillwater, Okla.
Corporal	Crowkite, Lewis	Infantry	Stillwater, Okla.
Sergeant	Damon, Mortimer	Infantry	Ringwoodd, Okla.
	Dannerbery, Grady	Medical	Chelsea, Okla.
Major	Davis, A. J.	Infantry	Atkinson, Kans.
Chief Gunner's Mate	Davis, Earl K.	Navy	Mounds, Okla.
	Davis, Eugene		Stillwater, Okla.
Lieutenant	Davis, George E.	Aviation	Stillwater, Okla.
Regimental Mail Orderly	Davis, George H.	Postal Service	Stillwater, Okla.
Major	Davis, P. J.	Coach	Norfolk, Va.
*Lieutenant	Davis, W. W.	Infantry	Stillwater, Okla.
Corporal	Davidson, Orion	Infantry	Stillwater, Okla.
	Deel, Homer		
*Lieutenant	Demeritt, C. E.	Wireless	Cushing, Okla.
Corporal	Denny, Chas. G.	Medical	Stillwater, Okla.
Lieutenant	Denny, Walter Dick	Infantry	Stillwater, Okla.
	Dial, Lee	Engineers	Reed, Okla.
	**Dickey, Albert	Infantry	Omega, Okla.
	Dickerson, Frank		
Second Lieutenant	Dickinson, W. C.	Infantry	Prague, Okla.
Corporal	Dickson, C. B.	Marine	Hugo, Okla.
*Lieutenant	Dickson, G. K.	Medical	St. Louis, Mo.
Second Lieutenant	Diel, Glen		Okemah, Okla.
Corporal	Dodgen, Orville	Infantry	Ochiltree. Tex.
Private	Dolezal, F. J.	Ordnance	Yukon, Okla.
Chief Yeoman	Dorman, Vern	Navy	Pond Creek, Okla.
Seaman	Dose, Herman	Navy	Kiefer, Okla.
Lieutenant	Doty, Harold E.	Infantry	Stillwater, Okla.
	Doty, Oran C.		
Second Lieutenant	Douglass, Glenn	Infantry	Stillwater, Okla.
Lieutenant	**Drew, Walter	Infantry	Ardmore, Okla.
First Lieutenant	Drummond, A. A.	Cavalry	Hominy, Okla.
Third Class Yeoman	Drummond, F. G.	Navy	Hominy, Okla.
Sergeant	Dudley, Leo E.	Infantry	Wapanucka, Okla.
Lieutenant Colonel	Duke, T. T.	Infantry	Camp Logan, Tex.
Corporal	Dunham, Lenox	Infantry	Stillwater, Okla.
	Dunham, R. P.	Infantry	Glencoe, Okla.
Lieutenant	Dunlap, Gerald	Infantry	Red Oak, Okla.

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Rank	Names	Branch of Service	Home Address
	Dyer, J. A.		Quinton, Okla.
Corporal	Earle, E. E.	Infantry	Stillwater, Okla.
	Earle, James R.		
	Edwards, Marshall		Stillwater, Okla.
	Edwards S. Bruce	Navy	Ames, Okla.
Lieutenant	Elder, Cecil	Medical	Argonia, Kans.
Second Class Musician	Ellis, Arthur G.	Band	Oklahoma City, Okla.
	Ellison, Bert	Aviation	Ola, Ark.
Second Lieutenant	Elston, W. B.	Aviation	Shawnee, Okla.
Second Lieutenant	Emmons, Clarence D	Field Artillery	Vinita, Okla.
Lieutenant	Ent, Mortimer		Mountain View, Okla.
Sergeant	Ent, Wm.		Mountain View, Okla.
Corporal	Erezee, R. L.	Infantry	Stillwater, Okla.
Sergeant	Evens, Gail		Randlett, Okla.
Sergeant	Evans, H. A.	Aviation	Dewey, Okla.
	Evens, Levi	Marine	Nash, Okla.
*Lieutenant	Evens, A. R.	Infantry	Washington, D. C.
Lieutenant Colonel	Ewell, George W.	Infantry	Joplin, Mo.
Wireless Operator	Ewing, Jeff S.	Navy	Guthrie, Okla.
Sergeant	Fair, R. M.	Artillery	Valliant, Okla.
Second Lieutenant	Fancher, Ted	Infantry	Edmond, Okla.
Corporal	Fanses, F. E.	Infantry	Stillwater, Okla.
Pharmacist's Mate	Farrington, Olin	Marine	Anadarko, Okla.
Sergeant	Fellows, Keith	Engineers	Stillwater, Okla.
	Fennema, Nick	Infantry	Lawton, Okla.
	Files, Jim	Infantry	Ralston, Okla.
	Files, James	Medical	Ralston, Okla.
	Fillmore, Roscoe	Marine	Glencoe, Okla.
*Lieutenant	**Fish, Wayne	Engineers	Helena, Okla.
Second Lieutenant	Fisher, John M.	Field Artillery	Arapaho, Okla.
Second Lieutenant	Fisher, Teague	Artillery	Clinton, Okla.
Private	Fleak, Beryl	Infantry	Muskogee, Okla.
	Flesner, Otto	Mechanic	Stillwater, Okla.
Private	Floyd, R. E.	Field Artillery	Stillwater, Okla.
Sergeant	Flynn, Joseph	Artillery	Oklahoma City, Okla.
Sergeant	Fly, Sherwood	Quartermaster	Fairfax, Okla.
Lieutenant	**Folsom, Roger	Infantry	Tulsa, Okla.
	Foudray, Ray	Infantry	Blackwell, Okla.
Corporal	Ford, Bland	Navy	Monroe, Okla.
Lieutenant	Forrester, C. T.	Cavalry	Stratford, Okla.
Farrier	Forrester, E. H.	Engineers	Denver, Colo.
Lieutenant	Forsythe, Andy	Infantry	Ruthdale, Okla.
Second Lieutenant	Forsythe, Fred	Field Artillery	
	Foster, Don		Kingfisher, Okla.
Sergeant	Foster, Faye	Air Service	Perry, Okla.
Private	Foster, Harry	Marine	Stillwater, Okla.
Lieutenant Colonel	Fravel, Ira F.	Baloon Section	Washington, D. C.
Lieutenant	Frazee, Raymond L.	Artillery	Lenore, Okla.
Lieutenant	French, Earl	Infantry	
	Frances, F. E.		
	Friedemann, T. E.	Chemist	Stillwater, Okla.
Second Lieutenant	Frier, Goul	Infantry	Sulphur, Okla.
Machinist's Mate	Frost, John A.	Navy	Stillwater, Okla.
	Fry, Curtis	Infantry	
Second Lieutenant	Gay, Elgin	Aviation	Pawhuska, Okla.
	Gazell		
Second Lieutenant	Gay, Thurman	Infantry	Pawhuska, Okla.
	Gayman, Byron	Artillery	Okeene, Okla.
Junior Lieuteant	Galven, E. O.	Navy	St. Louis, Mo.
	Gallagher, Cliff	Infantry	Stillwater, Okla.
Second Lieutenant	Garlock, Harry M.	Artillery	Richmond, Okla.
	Garst, Herman	Medical	Claremore, Okla.
First Lieutenant	Gassoway, Floyd	Infantry	Stillwater, Okla.
Lieutenant	Gaudian, Will	Engineers	Canal Zone, Panama.
*Lieutenant	George, Faber	Infantry	Ravia, Okla.
Private	Georgia, R. M.	Quartermaster	Stillwater, Okla.
First Lieutenant	Geren, L. C.	Infantry	Fort. Smith, Ark.
Lieutenant	German, Norvin	Cavalry	Stillwater, Okla.
	German, Robert	Hospital Corps	Stillwater, Okla.
Sergeant	Germany, Chas.		Oklahoma City, Okla.
First Lieutenant	Getgey, Jno. L.	Infantry	Helena, Okla.

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Rank	Names	Branch of Service	Home Address
Courier	Gibbs, Dudley R.	Engineers	Miami, Okla.
	Gilbert, Bina May	Nurse's Aid	Salt Fork, Okla.
	Gilbert, Harry	Air Service	Salt Fork, Okla.
	Gilbert, Leo	Medical	Salt Fork, Okla.
Corporal	Gillum, J. L.	Coast Artillery	Erick, Okla.
Second Lieutenant	Gilmer, T. P.	Coast Artillery	Oklahoma City, Okla.
	Gilmer, M. M.	Aviation	Orlando, Okla.
Lieutenant	Gloeckner, G. S.	Aeronautical Detachment	Fayetteville, Tex.
Corporal	Goldsby, Frank	Infantry	Noble, Okla.
Sergeant	Goodwin, Albert		Clinton, Okla.
	Gooding, Louis L.		Valiant, Okla.
Sergeant	Goodwin, R. Q.	Ordnance	Stillwater, Okla.
Private	Goom, Austin	Medical	Ripley, Okla.
	Godwin, Walter	Artillery	Douglas, Okla.
Second Lieutenant	Graham, Douglas	Field Artillery	Wilkinsburg, Pa.
Lieutenant	Graham, Earle		Marietta, Okla.
Sergeant	Graham, H. A.		Abbott, Okla.
Corporal	Graham, H. D.		Dalhart, Tex.
	Graham, Janet	Red Cross	Dallas, Tex.
Sergeant	Graham, J. E.	Infantry	Claremore, Okla.
	Grant, Thos.	Medical	Terlton, Okla.
Sergeant	Gray, Alonzo	Cavalry	Stillwater, Okla.
Lieutenant	Gray, Willis D.	Aviation	Stillwater, Okla.
Lieutenant	Gray, Wm. D.	Engineers	Ada, Okla.
	Graves, Earl G.	Infantry	Thomas, Okla.
Sergeant	Green, Brooks	Infantry	Pawnee, Okla.
	Greene, Dorsie	Infantry	Dewey, Okla.
Private	**Green, E. B.	Machine Gun	Cestos, Okla.
Corporal	Green, George	Infantry	Bethel, Okla.
	Green, L. C.		Magnolia, Ark.
Sergeant	Green, R. C.	Machine Gun	Magnolia, Ark.
Sergeant Major	Griffith, Leslie	Infantry	Quinton, Okla.
Second Lieutenant	Griffith, Lewis	Infantry	Quinton, Okla.
Sergeant	Griffith, Ross	Chemical Warfare	Quinton, Okla.
	Grimes, R. A.	Quartermaster	Walter, Okla.
Private	Gunner, D. W.	Machine Gun	Kendrick, Okla.
Instructor	Guss, G. S.	Radio	
Lieutenant	Hacker, Albert	Infantry	Purcell, Okla.
	Haddox, H. C.	Medical	Columbus, Ohio.
Second Lieutenant	Hagar, Wm. E.	Infantry	Stillwater, Okla.
Corporal	Hann, Ray	Engineers	Pawnee, Okla.
C. M. Third Class	Hale, E. M.	Navy	Pryor, Okla.
First Class Musician	Hall, C. L.	Field Artillery	Ardmore, Okla.
Corporal	Hall, Homer	Infantry	Belvedere, Ill.
Lieutenant	Hall, W. I.	Infantry	Stillwater, Okla.
Sergeant	Ham, Jno.	Infantry	Dickens, Tex.
Corporal	Hamblin, C. M.	Infantry	Stillwater, Okla.
	Hamblin, Ray	Aviation	
Corporal	Hamill, D. C.	Artillery	Oklahoma City, Okla.
Lieutenant	Harmilton, Homer	Medical	Stillwater, Okla.
Second Lieutenant	Hamilton, Ray	Infantry	Pond Creek, Okla.
Corporal	Hamilton, Volney	Coast Artillery	Tulsa, Okla.
	Hane, Ralph	Infantry	Waukomis, Okla.
Corporal	Hanger, W. C.	Infantry	Stillwater, Okla.
Private	Hanna, Houston H.	Coast Artillery	Ochiltree, Tex.
Private	Hanna, Lester	Heavy Artillery	Spencer, Iowa.
Captain	**Hanner, Carter	Infantry	Stillwater, Okla.
	Hargis, Frank E.		Oklahoma City, Okla.
	Harlow, Rex	Artillery	
Private	Harnden, L. M.	Infantry	Stillwater, Okla.
First Lieutenant	Harnden, Millard G.	Cavalry	Stillwater, Okla.
Lieutenant	Harp, Norris		Stillwater, Okla.
Private	Harper, Roy	Infantry	Oklahoma City, Okla.
Lieutenant	Harper, W. C.	Infantry	Oklahoma City, Okla.
Sergeant	Harrell, A. H.	Infantry	Roosevelt, Okla.
	Harrell, Otis C.	Aviation	Cordell, Okla.
	Harris, Ben	Band	Ardmore, Okla.
	Harris, R. M.		
Lieutenant	Harris, Clive	Aviation	Stillwater, Okla.
Private	Harris, Jack	Medical	Kiowa, Okla.
Lieutenant	Harrison, B. F.	Infantry	Stillwater, Okla.
Lieutenant	Harnden, L. D.	Field Artillery	Stillwater, Okla.

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Rank	Names	Branch of Service	Home Address
First Lieutenant	Harrison, Mitchell	Infantry	Muskogee, Okla.
Sergeant	Harrison, Robert B.	Infantry	Kenefick, Okla.
	Harrison, Ray	Aviation	Davenport, Okla.
Private	Harshberger, W.	Marine	Skedee, Okla.
Second Lieutenant	Hart, Hayden	Air Service	Mangum, Okla.
	Hartle, O. F.	Radio	Cestos, Okla.
Private	Hartpence, W. E.	Infantry	Stillwater, Okla.
Lieutenant	Hartshorne, E. C.	Engineers	Ponca City, Okla.
	Harvey, C. F.		
	Harvey, C. S.	Infantry	Stillwater, Okla.
Lieutenant	Harvey, D. K.	Infantry	Wyandotte, Okla.
Lieutenant	Harvey, J. W.	Coast Artillery	Altus, Okla.
Second Class Electrician	Hatch, W. R.	Radio	Enid, Okla.
Second Class Seaman	Hatcher, Otto	Naval Reserve	Stonewall, Okla.
	Hause, E. G.		Claremore, Okla.
	Havenstrite, R. W.		Lovell, Okla.
Private	Hayman, Bryan J.	Quartermaster	Enid, Okla.
Instructor	Hayman, R. E.	Aviation	Stillwater, Okla.
Corporal	Haymes, Hays	Field Artillery	Stillwater, Okla.
Sergeant	Haymes, W. R.	Infantry	Foyil, Okla.
Sergeant	Hays, D. J.		Stillwater, Okla.
First Lieutenant	Hays, George P.	Field Artillery	Okarche, Okla.
*Lieutenant	Hays, Glen P.	Artillery	Glencoe, Okla.
First Class Musician	Hayth, Jas.	Band	Lawton, Okla.
	Head, Herbert		Purcell, Okla.
Corporal	Hedger, H. R.	Ammunition Train	Stillwater, Okla.
Lieutenant	Heilman, Paul	Coast Artillery	Wagoner, Okla.
First Class	Heimen, Frank	Quartermaster	Okarche, Okla.
Private	Helmer, Richard	Engineers	Gotebo, Okla.
Captain	Hemphill, Ora L.	Engineers	Tryon, Okla.
Sergeant	Henderson, DeWitt	Medical	Tribbey, Okla.
	Hensel, Charlie		
Sergeant	Henderson, Miron R.	Coast Artillery	Okmulgee, Okla.
	Henderson, Robert F.		Tribbey, Okla.
Second Class	Hendrickson, A. B.	Band	Boynton, Okla.
Private	Hendrickson, Elmo	Infantry	Boynton, Okla.
Second Lieutenant	Henson, E. Ray	Infantry	McLoud, Okla.
	Henson, Homer H.	Infantry	McLoud, Okla.
	Hertzler, W. E.	Infantry	Aline, Okla.
	Hesser, W. J. B.		Stillwater, Okla.
Second Lieutenant	Heston, A. O.	Aviation	Stillwater, Okla.
	Hetherington, Creed		Morrison, Okla.
Corporal	Hickerson, Robert S.	Aviation	Davidson, Okla.
Seaman	Hickerson, W. B.	Naval Reserve	Pawhuska, Okla.
Second Lieutenant	Hickman, Geo.	Balloon Air Service	Snyder, Okla.
	Hicks, C. A.	Aviation	Bluejacket, Okla.
Second Lieutenant	Hildebrand, E. B.	Infantry	Chickasha, Okla.
Captain	Hildebrand, Harry	Infantry	Stillwater, Okla.
Second Lieutenant	Hildebrand, Lee E.	Air Service	Stroud, Okla.
	Hildebrand, Walter	Infantry	Stillwater, Okla.
	Hilgenberg, Erick	Infantry	Sayre, Okla.
Sergeant	Hilgenberg, R. C.		Elk City, Okla.
	Hill, J. M.	Infantry	
Second Class Seaman	Hill, Lawrence	Navy	Hill, Okla.
	Hill, Louis A.	Navy	Poteau, Okla.
	Hilman, G. C.	Sanitation	Stillwater, Okla.
Chief Clerk	Hinicker, Embis	Hospital	Ralston, Okla.
Clerk	Hinicker, G. E.	Medical	Ralston, Okla.
Lieutenant	Hinkel, Jno.	Medical	Stillwater, Okla.
Second Lieutenant	Hinkel, Wm.	Infantry	Stillwater, Okla.
Second Lieutenant	**Hirschi, Fred	Artillery	Iowa Park, Tex.
Second Lieutenant	Hobbs, W. Hugh	Field Artillery	Doyle, Okla.
First Lieutenant	Hobgood, Guy	Infantry	Stillwater, Okla.
Sergeant	Hoeffer, Forrest	Medical	Stillwater, Okla.
	Hogan, P. H.	Medical	Bethel, Okla.
Sergeant	Hoggard, Paul	Aviation	Hickory, Okla.
Lieutenant	Hoke, Geo.	Signal Corps	Stillwater, Okla.
Second Lieutenant	Hoke, Jesse	Infantry	Stillwater, Okla.
Second Lieutenant	Hoke, Roy	Infantry	Stillwater, Okla.
Sergeant	Holler, Z. N.	Coast Artillery	Stillwater, Okla.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
	Holyman, Rhese S.	Infantry	Ponca City, Okla.
Corporal	Holzer, Vern	Infantry	Stillwater, Okla.
	Holsier, Granville	Infantry	
Third Class	Hoover. R. W.	Band	Mountain View, Okla.
Private	Horner, J. T.	Quartermaster Corps	Guthrie, Okla.
Lieutenant	Horton, Earl	Infantry	Duncan, Okla.
Captain	Horton, Wayne	Infantry	Wewoka, Okla.
Corporal	Houck, David	Aviation	Stillwater, Okla.
Second Lieutenant	Houck, John	Field Artillery	Stillwater, Okla.
Lieutenant	Houston, Cecil	Infantry	Kelleyville, Okla.
Lieutenant	Houston, Chesney S.	Field Artillery	Kelleyville, Okla.
Corporal	Houston, Clifford	Infantry	Kelleyville, Okla.
Lieutenant	Houston, H. H.	Infantry	Oregon, Mo.
Second Lieutenant	Houston, H. M.	Infantry	Pawnee City, Neb.
Sergeant	Howard, Rufus M.	Hospital	
	Howell, N. H.	Field Clerk	Chicago, Ill.
Private	Hubbard, O. E.	Infantry	Afton, Okla.
Sergeant	Huddleson I. F.	Medical	Davenport, Okla.
	Huff, Robert	Artillery	Stillwater, Okla.
Captain	Huffman, L. D.	Medical	Vanduser, Mo.
Bugler	Hughes, S. C.	Band	Fairview, Okla.
	Hull, Edward	Signal Corps	Stillwater, Okla.
Corporal	Hull, Ray	Coast Artillery	Stillwater, Okla.
	Hunt, Oscar L.	Infantry	Shawnee, Okla.
Lieutenant	Hurst, B. B.		Denver, Colo.
Gunner's Mate	Hurst, Dick	Naval Reserve	Mangum, Okla.
	Hurst, J. B.	Band	Jefferson, Okla.
Sergeant	Hurst, R. B.	Medical	Los Angeles, Calif.
Bugler	**Hurst, Raymond	Infantry	Pocassett, Okla.
Corporal	Ikard, E. H.	Medical	Chickasha, Okla.
Sergeant	Ikard, W. L.	Hospital	Chickasha, Okla.
Sergeant	Irwin, Richard	Air Service	Tulsa, Okla.
	Isenberg, G. W.		Stillwater, Okla.
First Lieutenant	Ives, Earl	Air Service	Avery, Okla.
Sergeant	Ives, Herbert	Infantry	Avery, Okla.
	Jackson, Ernest	Navy	Coweta, Okla.
Private	Jackson, J. A.	Engineers	Henryetta, Okla.
	Jacob, G. H.	Infantry	Stillwater, Okla.
Corporal	Jackson, W. E.	Medical	Coweta, Okla.
Lieutenant	Jacob, W. A.	Medical	Stillwater, Okla.
*Lieutenant	Jacob, L. O.	Field Artillery	Stillwater, Okla.
Private	Janes, Cylde	Radio	Meno, Okla.
Second Lieutenant	Janeway, D. Harold	Infantry	Stillwater, Okla.
*Lieutenant	Jay, Max	Infantry	Pawnee, Okla.
Lieutenant	Jeffords, S. L.	Artillery	Muskogee, Okla.
	Jenkins. Henry B.	Research Aviation	Perkins, Okla.
Second Lieutenant	Johns, Wm. Lyon	Coast Artillery	Dallas, Tex.
Lieutenant	Johnson, C. R.	Aviation	Lawton, Okla.
Second Lieutenant	Johnson, Harry E.	Infantry	Tulsa, Okla.
	Johnson, J. M.		
	Johnson, J. O.		
Private	Johnson, Lawrence	Signal Corps	Stillwater, Okla.
	Johnson, Theo. R.	Navy	Cushing, Okla.
Lieutenant	Johnston, R. M.	Infantry	Oklahoma City, Okla.
	Johnston, Wardell	Medical	Meridian, Miss.
Drum Major	Jones, C. G.	Band	Cushing, Okla.
	Jones, C. S.	Machine Gun	Yale, Okla.
First Lieutenant	Jones, Lloyd	Medical	Fayetteville, N. C.
	Jones, Fred	Machine Gun	Stillwater, Okla.
First Lieutenant	Jones, Shelly	Engineers	Sayre, Okla.
Chemist	Jordan, Chas. N.	Medical	Meridian, Miss.
Private	Keeton, V. D.		Ralston, Okla.
Captain	Keith, Lawrence	Infantry	Stillwater, Okla.
Private	Keller, Clint J.	Quartermaster	Arkansas City, Kans.
Sergeant	Keller, Floyd	Medical Corps	Oklahoma City, Okla.
	Kello, Richard A.	Infantry	Muskogee, Okla.
Sergeant	Kelly, Carson	Medical	Stillwater, Okla.
	Kelly, George		Vinita, Okla.
Sergeant	Kemp, Harvey	Artillery	Oklahoma City, Okla.
Lieutenant	Kenny, R. W.	Field Artillery	Blackwell, Okla.
Lieutenant	Kenworthy, Chester	Aviation	Muskogee, Okla.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
Midshipman	Kenyon, Howard	Naval Training Academy	Kaw City, Okla.
Private	Kerr, Jno.	Quartermaster	McAlester, Okla.
	Kerr, Lockard	Navy	Pauls Valley, Okla.
Lieutenant	Ketchum, J. E.	Cavalry	Foraker, Okla.
Lieutenant	Kibler, J. Bryan	Infantry	McLean, Tex.
Lieutenant	Kilpatrick, Chas.	Coast Artillery	Hunter, Okla.
Chief Mate	Kilpatrick, Earl	Naval Aviation	Hunter, Okla.
Lieutenant	Kimball, J. A.	Artillery	Altus, Okla.
Private	Kingham, Jasper	Infantry	Sweetwater, Okla.
Second Lieutenant	Kirchner, Ralph	Field Artillery	Perry, Okla.
	Kittridge, M. C.		Paris Island, Calif.
	Kite, W. C.	Aviation	Perry, Okla.
Second Lieutenant	Knight, E. R.	Infantry	Stillwater, Okla.
Captain	Knoblock, Cecil	Artillery	Stillwater, Okla.
First Lieutenant	Knoblock, Fred	Aviation	Texas City, Tex.
*Lieutenant	Kooken, Ralph	Medical	Bellingham, Wash.
Sergeant	Kramp, Ed	Medical	Okeene, Okla.
Lieutenant	Kramp, W. Theo.	Infantry	Okeene, Okla.
Second Lieutenant	Krepps, Samuel	Heavy Artillery	Oklahoma City, Okla.
	Krisher, Jno. F.		Walter, Okla.
Second Lieutenant	Krisher, Sherman	Artillery	Walter, Okla.
Captain	Kunze, Edw. J.	Quartermaster	East Lansing, Mich.
Sergeant	Kutis, F. M.	Medical	Edmond, Okla.
Lieutenant	Ladd, Noble	Infantry	Chickasha, Okla.
*Lieutenant	Lahman, Wilbur	Infantry	Stillwater, Okla.
Captain	Lane, Olin		Shawnee, Okla.
Corporal	Laney, Marcus	Ordnance	Boswell, Okla.
Lieutenant	Larner, Ray	Coast Artillery	Dill, Okla.
Quartermaster	Laughlin, Dennis	Navy	Stillwater, Okla.
	Law, Jno. E.		Perry, Okla.
Corporal	Lawellin, S. J.	Infantry	Goltry, Okla.
Lieutenant	Ledbetter, Lewis	Infantry	Rockey, Okla.
Corporal	Lee, Glenn P.	Infantry	Marlow, Okla.
Corporal	Leteer, Roy	Infantry	Stillwater, Okla.
	Lewis, A. H.		Stillwater, Okla.
	Lewis, Charles		Wakita, Okla.
Seaman	Lewis, Ira	Naval Reserve	Stillwater, Okla.
Gunner	Lillie, John	Navy	Stillwater, Okla.
	Lindsay, Campbell		Poplar Bluff, Ark.
	Lindsay, Wm.	Navy	Iowa Park, Tex.
Field Clerk	**Livergood, T.	Signal Corps	Newkirk, Okla.
	Locks, Harry	Infantry	
	**Long, James H.		Billings, Okla.
Sergeant	Lookabaugh, Guy		Watonga, Okla.
Sergeant	Loomis, Alden H.	Navy	Wakita, Okla.
First Lieutenant	**Lowery Keith	Infantry	Kingfisher, Okla.
Field Clerk	Lowery, O. C.	Intelligence Clerk	Stillwater, Okla.
Lieutenant	Lowery, Phil H.	Infantry	Loco, Okla.
Corporal	Lyne, Wm.		Shawnee, Okla.
First Lieutenant	McFarlane, Wallace	Chemical Warfare	Washington, D. C.
Corporal	Mackey, B. W.	Infantry	Stillwater, Okla.
	Mahaffey, K. W.	Artillery	Stillwater, Okla.
Lieutenant	Mahaffey, Max	Research Aviation	Stillwater, Okla.
Sergeant	Mahseet, Carl	Infantry	Cyril, Okla.
	**Main, Harold	Infantry	Stillwater, Okla.
Sergeant	Mallory, Jas.	Quartermaster Corps	Stillwater, Okla.
	Malone, D. E.		
Lieutenant	Mann, George	Infantry	Sapulpa, Okla.
First Lieutenant	Mantle, Guy	Chaplain	Adair, Okla.
	Maphet, Chas.	Medical	Meno, Okla.
Captain	Marker, Walter	Ordnance	Orlando, Okla.
Sergeant	Markland, James	Coast Artillery	Stillwater, Okla.
Lieutenant	Markland, Waldo	Infantry	Stillwater, Okla.
Second Lieutenant	Markwell, Earl D.	Infantry	Stillwater, Okla.
Corporal	Marlin, Bill	Infantry	Pawnee, Okla.
Second Lieutenant	Marsh, Wm. Seay	Infantry	Kingfisher, Okla.
Second Class Seaman	Martin, Archie O.	Naval Reserve	Watonga, Okla.
Second Class	Martin, Frank	Band	Sallisaw, Okla.
Private	**Martin, J. E.	Medical	Mounds, Okla.
Corporal	Martin, Wm. Ross	Infantry	

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Rank	Names	Branch of Service	Home Address
	Martin, LeRoy		
Second Lieutenant	Marx, Lloyd	Field Artillery	Pawnee, Okla.
	Marx, Myron		Pawnee, Okla.
	Mason, Wm.	West Point	Lehigh, Okla.
Corporal	Matthews, Frank D.		Mulhall, Okla.
Sergeant	Mathieu, Elro	Medical	Lawton, Okla.
	Mathies, J. Paul		Wister, Okla.
	Maudlin, Fulton	Navy	Chandler, Okla.
	**May, Roy	Infantry	Henrdix, Okla.
Seaman	May, Roy D.	Naval Reserve	Scullin, Okla.
Seaman	Mayberry, F. A.	Naval Training Academy	Claremore, Okla.
Corporal	McAdams, T. F.		
Instructor	McBride, Elmer	Mechanic	Stillwater, Okla.
Private	McBride, Jno. D.	Coast Artillery	Stillwater, Okla.
Nurse	McBride, Lillian	Red Cross	San Marcos, Tex.
Wireless Operator	McBride, R. V.	Submarine	Bartlesville, Okla.
Captain	McBurney, Ralph	Sanitary Corps	Perry, Okla.
	McCarty, Floyd S.	Engineers	McAlester, Okla.
First Lieutenant	McCollum, Ernest	Infantry	Lone Wolf, Okla.
First Class	McDowell, Amsa	Band	Cherokee, Okla.
Electrical Sergeant	McElroy, C. E.	Coast Artillery	Pineland, Tex.
Sergeant	McGinty, Carl	Infantry	Lowell, Okla.
Corporal	McGinty, Geo.	Infantry	Lowell, Okla.
Sergeant	McGwinn, Arthur	Field Artillery	Enid, Okla.
*Lieutenant	McIlvain, Chas. L.	S. A. M.	Ponder, Tex.
Corporal	McInnes, Roy	Infantry	Stillwater, Okla.
Second Class Musician	McKee, Calvin	Band	Cooperton, Okla.
	McKinley, T. J.	Infantry	Bartlesville, Okla.
	McLain, Lloyd W.		Muskogee, Okla.
	**McLean, Don		Tulsa, Okla.
	McMillan, W. H.		
Lieutenant	McMullen, S. L.		
Captain	McNeeley, Oscar D.	Coast Artillery	Goltry, Okla.
First Lieutenant	McTaggart, Ernest	Infantry	Stillwater, Okla.
	McVickar, Guy	Quartermaster	Lawton, Okla.
Lieutenant	Meeker, J. R.	Infantry	Temple, Okla.
First Lieutenant	Melton, F. Armon	Field Artillery	Stillwater, Okla.
Second Lieutenant	Melton, Wendell	Field Artillery	Okmulgee, Okla.
Sergeant	Merrifield, Fred R.	Medical	Enid, Okla.
	Meyer, H. B.	Infantry	
	Middleton, D. W.		
	Miller, A. L.	Medical	
Second Class Apprentice	Milliken, Chas.	Navy Hospital	Stillwater, Okla.
	Million, Burl	Chemist	Supply, Okla.
	Milner, Geo.		
Sergeant	Minor, N. N.	Aviation	Miami, Okla.
Lieutenant	Minton, H. Lee	Signal Corps	Enid, Okla.
Captain	Mitchell, Gail	Engineers	Waurika, Okla.
Sergeant	Mitchell, Homer	Medical	Leedey, Okla.
Corporal	**Mitchell, Joe	Infantry	Porter, Okla.
First Sergeant	Mittendorf, Oscar	Coast Artillery	Calumet, Okla.
Lieutenant	Mittendorf, W. H.	Aviation	Stillwater, Okla.
	Mondy, Chas.		Fairview, Okla.
	Montgomery, Joel	Artillery	Valiant, Okla.
Sergeant	Moore, Allen	Medical Corps	Denver, Colo.
First Class Sergeant	Moore, Chas. S.	Medical	Waukomis, Okla.
Captain	**Moore. C. Joel	Engineers	Lampasas, Tex.
Sergeant	Morgan, Roy	Machine Gun	Garber, Okla.
Corporal	Morris, James	Infantry	Stillwater, Okla.
First Class Petty Officer	Morris, Robey	Navy	Purcell, Okla.
	Morrison, Chas. R.	Aviation	
	Morrison, Jesse	Coast Artillery	Norman, Okla.
	Morrison, Willie	Coast Artillery	Stillwater, Okla.
	Morrow, Edwin	Quartermaster Corps	Prague, Okla.
	Morrow, John	Marine	Harrah, Okla.
	Muller, Proctor	Infantry	Agra, Okla.
Sergeant	Munyon, Clyde		Morrison, Okla.
Captain	Murray, Clive E.	Marine	Kenefick, Okla.
	Myers, G. N.	Engineers	Shawnee, Okla.
Assistant Druggist	Myers, J. A.	Medical	Eldorado, Okla.

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Rank	Names	Branch of Service	Home Address
Lieutenant	Nash, B. M	Quartermaster Corps	Paden, Okla.
Lieutenant	Nation, John	Engineers	Quinton, Okla.
Corporal	Nation, Clarence	Infantry	Stillwater, Okla.
First Lieutenant	Naylor, H. R	Field Artillery	Hollister, Okla.
First Lieutenant	Needham, I. H	Field Artillery	Stillwater, Okla.
	Neff, J. M		Hooker, Okla.
Corporal	Nenbert, James	Engineers	Stillwater, Okla.
Lieutenant	Nellis, H. W	Field Artillery	Stillwater, Okla.
	Nelms, E. B	Infantry	Stillwater, Okla.
	Nelson, A. H	Field Artillery	Enid, Okla.
Lieutenant	Nelson, A. I	Medical	Stillwater, Okla.
Corporal	Nelson, B. D	Field Artillery	Stillwater, Okla.
Private	Nelson, Edwin G	Infantry	Ames, Okla.
Lieutenant	Nelson, Joe S	Infantry	Stillwater, Okla.
Lieutenant	Netherton, Cecil	Naval Reserve	Bernice, Okla.
Sergeant	Netick, Joe	Aviation	Wyndmere, N. D.
Lieutenant	Newton, R. C	Infantry	Stillwater, Okla.
Sergeant	Newton, Webb		Stillwater, Okla.
Sergeant	Nicholas, Chas. L	Hospital	
Second Lieutenant	Nims, Albert K	Air Service	Cushing, Okla.
Lieutenant	Nims, H. L	Infantry	Cushing, Okla.
Second Lieutenant	Norman, Victor	Infantry	Stillwater, Okla.
Chief Electrician	Notson, Carl	Navy	Wellston, Okla.
Second Class Seaman	Nuckols, R. B	Naval Reserve	Rockey, Okla.
Second Class Musician	Odor, R	Band	Arcadia, Okla.
Sergeant	Ogle, Leo	Artillery	Arcadia, Okla.
	Olbrich, E. R	Navy	Philadelphia, Pa.
Sergeant	Oldham, Albert E	Medical	Stillwater, Okla.
Sergeant	Olentine, Robert	Engineers	Muskogee, Okla.
Corporal	Olmstead, Ivan	Infantry	Marshall, Okla.
Captain	Olmstead, M. E	Infantry	Stillwater, Okla.
Private	Orr, Robert L	Radio	Eufaula, Okla.
First Lieutenant	Oursler, Clark	Infantry	Oklahoma City, Okla.
Engineman	Overstreet, Russell	Engineers	Cowlington, Okla.
Sergeant	Owsley, Lindsey	Cavalry	Stillwater, Okla.
Sergeant	Owsley, Wm. A	Infantry	Stillwater, Okla.
	Pace, L. P	Infantry	McGirk, Mo.
Corporal	Painter, Ray D	Infantry	Afton, Okla.
Private	Park, Clay H	Infantry	Stillwater, Okla.
Corporal	Parsons, Alva	Infantry	Renfrow, Okla.
First Class Musician	Patterson, I. A	Band	Newkirk, Okla.
	Patterson, J. J	Infantry	Stillwater, Okla.
Corporal	Patterson, W. H	Meteorology	Okemah, Okla.
Sergeant	Payne, Wm. F		Shawnee, Okla.
Sergeant	Peck, Harold	Meteorology	Stillwater, Okla.
	Penny, Jas. H	Infantry	Glencoe, Okla.
Private	Penquite, Robert	Infantry	Chickasha, Okla.
Lieutenant	Percival, Chas. A	Artillery	Bay City, Tex.
	Perry, Burley	Cavalry	Cushing, Okla.
Corporal	Perry, I. B	Infantry	Stillwater, Okla.
Sergeant	Persing, Wilber	Aviation	Coyle, Okla.
	**Phenicie, F. T	Mechanic	Sealy, Tex.
	Pickard, Jesse	Infantry	Reed, Okla.
	Pickens, Boyd		Carmen, Okla.
	Pickering, Jennie F	Y. M. C. A	Stillwater, Okla.
	Piel, Ernest C		Perry, Okla.
Seaman	Pierce, C. J	Navy	Stillwater, Okla.
	**Pierce, Geo. F	Infantry	Stillwater, Okla.
	Pierson, Jas. A	Infantry	
*Lieutenant	Pierson, J. W	Infantry	Pond Creek, Okla.
	Pierson. Roy	Infantry	Pond Creek, Okla.
Sergeant	Pipp. Albert	Cavalry	Boynton, Okla.
Sergeant	Pilkerton, E. J	Engineers	Apache, Okla.
First Class Master's Mate	Plank, Norris	Navy	Bartlesville, Okla.
	Poffenberger, Max	Medical	Stillwater, Okla.
	Pollard, L. R	Depot Brigade	Stillwater, Okla.
Lieutenant	Pollard, Sam	Field Artillery	Stillwater, Okla.
Sergeant	Porter, Frank	Infantry	Stillwater, Okla.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
Lieutenant	Porter, Pleasant	Infantry	Leonard, Tex.
Corporal	Porter, Ray	Coast Artillery	Perkins, Okla.
Lieutenant	Porter, Wm. A.	Naval Training	Muskogee, Okla.
	Porterfield, Woodson		New Wilson, Okla.
Sergeant	Postelle, Guy	Infantry	Oklahoma City, Okla.
Sergeant	Potter, Frank	Coast Artillery	Stillwater, Okla.
Sergeant	Potts, Clay	Infantry	Headrick, Okla.
	Powell, J. J.	Navy	Cherokee, Okla.
	Powell, Willard F.		
Second Lieutenant	Prater, Richard	Field Artillery	Hobart, Okla.
Sergeant	Pratt, Willard M.	Quartermaster	Lincoln, Neb.
	Pritchard, E. A.	Infantry	Stillwater, Okla.
Sergeant	Prollock, Wm.	Medical	Orlando, Okla.
Corporal	Pugh, A. Byron	Infantry	Ardmore, Okla.
	Purviance, Sam		
Dredgeman	Purviance, Wm.	Marine	
Sergeant	Putman, O. L.	Radio	Wirt, Okla.
Lieutenant	Putney, E. M.	Infantry	Oklahoma City, Okla.
Corporal	Rabon, Floyd	Infantry	Madill, Okla.
Sergeant	Raines, Geo. O.	Aviation	Lawton, Okla.
Wireless Operator	Ramseyer, W. F.	Navy	Mulhall, Okla.
Wireless Operator	Raney, Frank K.	Navy	Higgins, Tex.
Second Lieutenant	Reid, Guy C.	Artillery	Oklahoma City, Okla.
Corporal	Reid, Lynn	Hospital Corps	Oklahoma City, Okla.
Private	Reid, Faye	Infantry	Stillwater, Okla.
Corporal	Reid, John	Coast Artillery	Stillwater, Okla.
Second Lieutenant	Rey, Walter	Infantry	Oklahoma City, Okla.
	Reynolds, C. A.	Aviation	Elk City, Okla.
Sergeant Major	Reynolds, E. B.	Infantry	Angleton, Tex.
	Reynolds, Frank S.	Navy	Elgin, Okla.
Sergeant	Reynolds, Fred	Infantry	Staples, Minn.
Lieutenant	Rhinehart, Harry	Quartermaster	Guthrie, Okla.
Lieutenant	Rinehart, Virgil	Infantry	Ramona, Okla.
Lieutenant	Rhodes, Tilford W.	Aviation	Fort Worth, Tex.
Corporal	Rodes, R. I.	Infantry	Stillwater, Okla.
Lieutenant	Ransom, Harry	Infantry	Stillwater, Okla.
Lieutenant	Rapp, C. W.	Field Artillery	Stillwater, Okla.
Sergeant	Rasmussen, A.	Medical	Haward, Okla.
Seaman	Rasmussen, Jerd	Navy	Haward, Okla.
	Rasmussen, Orville	Medical	Hennessey, Okla.
Second Class Musician	Ratslaff, Rudolph	Naval Band	Meno, Okla.
	Ray, Francis Ward	Engineers	Stillwater, Okla.
Sergeant	Ray, Elbert B.		Atoka, Okla.
	Rea, Robert		Buffalo, Okla.
Sergeant	Reed, Otis C.	Machine Gun	Stillwater, Okla.
Corporal	Reed, Fred A.	Quartermaster	Suttons Bay, Mich.
First Lieutenant	Reeve, J. R.	Infantry	Dewey, Okla.
Corporal	Reeves, Fred	Infantry	Yukon, Okla.
Sergeant	Reichman, Carl	Medical	Stillwater, Okla.
	Rice, Lewis W.		
	Richards, Carl		Stillwater, Okla.
Second Lieutenant	Roberts, Clarence	Infantry	Oklahoma City, Okla.
First Class Signalman	Roberts, Paul	Navy	Hollis, Okla.
	Roberts, Perry	Infantry	Stillwater, Okla.
Sergeant	Robertson, B. W.	Infantry	Stillwater, Okla.
Private	Robertson, Philo R.	Quartermaster	Stillwater, Okla.
Sergeant	Robertson, Reuben	Artillery	Stillwater, Okla.
	Robbins, Oscar	Quartermaster	Minco, Okla.
Sergeant	Robinson, C. A.	Artillery	Stillwater, Okla.
Sergeant	Robinson, C. H.	Coast Artillery	Stillwater, Okla.
	Robinson, C. J.		Muskogee, Okla.
	Robinson, George	Artillery	Pauls Valley, Okla.
Second Lieutenant	Robinson, Joe L.	Field Artillery	Omega, Okla.
Corporal	Robinson, Raymond	Infantry	Stillwater, Okla.
First Lieutenant	Robinson W. B.	Infantry	Quaker City, Ohio.
	Rock, F. H.		Pawnee, Okla.
	Rodkey, R.	Navy	Maysville, Okla.
	Roeser, Harry M.	Engineers	Washington, D. C.
	Rogers, A. Vincent	Infantry	Stillwater, Okla.
Sergeant	Rogers, O. C.	Navy	Ingalls, Okla.
First Sergeant	Rohrbaugh, Paul	Ordnance	Boynton, Okla.

*In training camp when armistice was declared.

Rank	Names	Branch of Service	Home Address
	**Rosenbaum, Wm.	Chemical Warfare	New York, N. Y.
First Lieutenant	Ross, George	Field Artillery	Shawnee, Okla.
Lieutenant	Ross, James K.	Engineers	Madill, Okla.
Second Lieutenant	Rouse, Claude	Aviation	Pleasant Valley, Okla.
Bugler	Rowe, Claude	Band	Amber, Okla.
	Roy, Percy		Salt Fork, Okla.
	Roysdon, Geo. W.		Goodnight, Okla.
	Russell, Harley	Infantry	Ripley, Okla.
Corporal	Rutter, Earl	Machine Gun	Stillwater, Okla.
	Sale, Leonard	Navy	Shawnee, Okla.
Lieutenant	Sale, W. C.	Infantry	Shawnee, Okla.
Sergeant	Sanders, Grover	Infantry	Kingfisher, Okla.
Radio Electrician	Sanders, Lewis	Navy	Greenfield, Okla.
Corporal	Sanders, Merle A.		Kingfisher, Okla.
Private	Sanford, Paul G.	Infantry	Weleetka, Okla.
Gunner	Sanguin, Clyde	Navy	Hugo, Okla.
	Savage, O. M.		Pond Creek, Okla.
Corporal	Sayre, Eugene W.	Infantry	
Second Lieutenant	Schacker, James	Infantry	Stillwater, Okla.
Private	Schiefelbusch, T. L.	Postal Service	Stillwater, Okla.
Second Lieutenant	Schnurr, Cornelius	Field Artillery	Orlando, Okla.
	Schockley, Wayne	Infantry	Enid, Okla.
	Schooler, George	Navy	Stillwater, Okla.
	Schuhmann, Ernestine	Red Cross	Stillwater, Okla.
	Scott, E. M.	Engineers	Glasgow, Ky.
	Scott, Forrest		
Lieutenant	Scott, Wiley E.	Infantry	Chicago, Ill.
First Lieutenant	Scott, J. Herman	Infantry	Glasgow, Ky.
Lieutenant	Schrivner, J. S.	Artillery	Maysville, Okla.
Second Lieutenant	Scrivner, Russell	Air Service	Maysville, Okla.
	Scroggs, Arthur	Infantry	Stillwater, Okla.
	Scroggs, Wm. E.	Infantry	Stillwater, Okla.
Second Class Musician	Scruggs, Ernest H.	Band	Minco, Okla.
Sergeant	Scruggs, P. G.	Machine Gun	Lawton, Okla.
Corporal	Searcey, Carl	Aviation	Yale, Okla.
Private	Sebastian, F. A.	Artillery	Stillwater, Okla.
Sergeant	Seger, E. C.	Machine Gun	Billings, Okla.
Private	Selement, T. J.	Aviation	Yukon, Okla.
*Lieutenant	Sieglinger, J. B.	Field Artillery	Woodward, Okla.
Lieutenant	Sessions, Gilpin L.	Infantry	
Second Lieutenant	Self, John A.	Marine	Ardmore, Okla.
Private	Sewell, J. R.	Machine Gun	Stillwater, Okla.
Captain	Sharp, Eugene G.	Infantry	Janesville, Wis.
	Shaw, Clarence		Wewoka, Okla.
	Sherburns, John A.	Infantry	Cordell, Okla.
Corporal	Sherman, I. B.	Medical	Garber, Okla.
Lieutenant	Shields, Wm.	Field Artillery	Calumet, Okla.
Corporal	Shiflett, R. F.	Hospital Corps	Marlow, Okla.
Sergeant	Shiller, H. H.	Infantry	Placeda, Tex.
	Shirley, E. Glen	Radio	Gage, Okla.
Lieutenant	Short, Robert	Artillery	Okmulgee, Okla.
Lieutenant	Shuler, W. P.	Medical	Stillwater, Okla.
Lieutenant	Simank, Ben		Beaumont, Tex.
First Lieutenant	Simank, E. W.	Aviation	Beaumont, Tex.
Ensign	Simmons, Virgil	Aviation	Stillwater, Okla.
	**Simpson, E. L.	Infantry	Guthrie, Okla.
Lieutenant	Sinclair, Edw. F.	Infantry	Oklahoma City, Okla.
	Skinn, George		Russellville, Ark.
Second Lieutenant	Skinner, Elias Ray	Infantry	Billings, Okla.
Sergeant	Skinner, Ray	Infantry	Stillwater, Okla.
*Lieutenant	Smith, A. F.	Aviation	Seminole, Okla.
	Smith, A. R.		Haskell, Okla.
Sergeant	Smith, C. Ray	Quartermaster	Stillwater, Okla.
Sergeant	Smith, Elmer	Infantry	Sapulpa, Okla.
Lieutenant	Smith, E. J.	Medical	Cincinnati, Ohio.
First Sergeant	Smith, E. P.	Infantry	Seminole, Okla.
Private	Smith, G. C.	Infantry	Baton Rouge, La.
	Smith, Horace	Signal Corps	Mulhall, Okla.
*Lieutenant	Smith, J. S.	Machine Gun	Sapulpa, Okla.
	Smith, Lee Russell	Navy	Ponca City, Okla.
Sergeant	Smith, Marion C.	Aviation	Kansas City, Mo.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
	Smith, Roy E.	Cavalry	Ripley, Okla.
	Smith, Walter		Vici, Okla.
First Lieutenant	Smith, R. R.	Infantry	Chickasha, Okla.
Captain	Smizer, Rayburn	Infantry	Oklahoma City, Okla.
Lieutenant	Snowden, Jay	Field Artillery	Stillwater, Okla.
Lieutenant	Soderstrom, E. R.	Engineers	Stillwater, Okla.
Licutenant	Solenni, G. V. de Medici	Infantry	Laramie, Wyo.
Lieutenant	Southwick, Ivan A.	Aviation	Garber, Okla.
	Spain, Ernest		Sentinel, Okla.
Assistant Surgeon	Spalding, Harry B.	Navy	Ralston, Okla.
Private	Spalding, E. L.	Infantry	Enid, Okla.
Major	Spalding, Ike	Field Artillery	Enid, Okla.
Sergeant	Spangler, Irl M.		Drumright, Okla.
	Spangler, T. M.	Artillery	Frederick, Okla.
	Spraragen, W. C.	Infantry	Schenectady, N. Y.
Sergeant	Spalding, John	Infantry	Pocatello, Idaho.
Private	**Spencer, E. L.	Military Police	Stillwater, Okla.
Second Lieutenant	Spencer, Joe R.	Infantry	Stillwater, Okla.
	Spilman, R. E.	Veterinary	Drumright, Okla.
	Springer, Glen		Perry, Okla.
	Springer, Paul	Engineers	
Drum Major	Stallard, Fred	Band	Stillwater, Okla.
	Stanley, C. J.	Infantry	Wister, Okla.
Sergeant	Stanton, Clyde	Medical	Marlow, Okla.
	Starr, Robert C.	Depot Brigade	Concho, Okla.
Lieutenant	Stevens, Harry I.	Medical	Des Moines, Iowa.
Second Lieutenant	Steward, Eldridge D.	Field Artillery	Anadarko, Okla.
First Class Quartermaster	Stewart, E. R.	Navy	Stillwater, Okla.
Corporal	Stewart, L. F.	Meteorology	Tulsa, Okla.
Lieutenant	Stewart, S. J.	Engineers	Tuttle, Okla.
Private	Stinson, Clarence	Infantry	Walters, Okla.
	Stokes, Bryce	Navy	Idabel, Okla.
Second Lieutenant	Stokesberry, L.	Infantry	Stillwater, Okla.
Cook	Stockton, F. D.	Machine Gun	Perkins, Okla.
	Stocklasa, Frank	Infantry	Earlsboro, Okla.
	Stone, Shelley R.	Meteorology	Chickasha, Okla.
	Stossell, Philip		
Lieutenant	Stout, C. G.	Engineers	Wellston, Okla.
Lieutenant	Straub, O. T.	Infantry	Amarillo, Tex.
Private	Stull, Albert	Marine	Pond Creek, Okla.
Second Lieutenant	Suggs, P. G.	Field Artillery	Lawton, Okla.
Corporal	Suggs, Verlie	Infantry	Ardmore, Okla.
Lieutenant	Sullivan, C. C.	Aviation	Comanche, Okla.
Captain	Surtees, L. V.	Infantry	Swedesboro, N. J.
	Swanson, James L.	Artillery	Roosevelt, Okla.
	Swim, Leslie L.		Stillwater, Okla.
Sergeant Major	Swingle, Chas.	Aviation	Oklahoma City, Okla.
	Taft, Don E.	Signal Corps	Garber, Okla.
Lieutenant	Taft, Harvey	Engineers	Garber, Okla.
	Tankersley, Theo.	Marine	Stillwater, Okla.
	Tappe, Erick		
Lieutenant	Tarver, L. L.	Field Artillery	Ardmore, Okla.
Corporal	Taylor, Oscar L.	Band	Stillwater, Okla.
	Taylor, Walter	Ordnance	Oklahoma City, Okla.
Lieutenant	Terrill, Quinn	Navy	Arkansas City, Kans.
	Terry, James		Chickasha, Okla.
First Lieutenant	Terry, Leo	Infantry	Glenn, Okla.
	Tharp, Merle L.		Yale, Okla.
Corporal	Thomas, E. F.	Aviation	Durham, Okla.
Lieutenant	Thomas, Harley O.	Artillery	Tampico, Ill.
	Thomas, W. P.	Artillery	Gage, Okla.
	Thompson, Beldon	Navy	Bailey, Okla.
Corporal	Thompson, Seth	Cavalry	Coyle, Okla.
Private	Thompson, Henry	Ambulance	Ralston, Okla.
Lieutenant	Thornton, J. W.	Infantry	Wauhilla, Okla.
	Thorpe, O. G.	Engineers	Broken Arrow, Okla.
Private	Thorpe, W. D.	Signal Corps	Salem, Ohio.
Corporal	Thornton, J. T.	Infantry	Stillwater, Okla.
Lieutenant	Tillottson, A. K.	Infantry	Oklahoma City, Okla.
Corporal	Tilton, Albert G.	Medical	Nardin, Okla.
Lieutenant	Tingle, J. T.	Infantry	Meridian, Miss.

**Deceased.

Rank	Names	Branch of Service	Home Address
Lieutenant	Tippie, George	Infantry	Pryor, Okla.
Trumpeter	Titus, Chas.	Band	Ingersoll, Okla.
	Tolleson, John	Artillery	Stillwater, Okla.
Lieutenant	Tourtellotte, E.	Artillery	Stillwater, Okla.
	Townsley, John		
Second Lieutenant	**Tucker, D. B.	Field Artillery	Stillwater, Okla.
Lieutenant	Tucker, Chas.	Field Artillery	Stillwater, Okla.
Lieutenant	Tucker, W. E.	Aviation	Stillwater, Okla.
	Turner, H. P.	Infantry	Lawton, Okla.
Corporal	Turner, Jack R.	Infantry	Stillwater, Okla.
	Turner, Ralph		
	Tuttle, James B.	Coast Artillery	Tuttle, Okla.
Bugler	Tyrrell, George	Aviation	Wilburton, Okla.
Private	Upp, Chas.	Infantry	Chelsea, Okla.
Second Lieutenant	Vance, W. E.	Air Service	Blackwell, Okla.
Sergeant	Vance, Dean	Infantry	Stillwater, Okla.
	Vandeventer, V. W.		Arnett, Okla.
	Vassar, Paul N.		
Sergeant	Vaughn, Frank	Engineers	Supply, Okla.
	Vermillion, Dickey	Engineers	Supply, Okla.
	Vermillion, Evelyn	Red Cross	Stillwater, Okla.
Corporal	Vermillion, Ray	Medical	Stillwater, Okla.
Second Lieutenant	Voyles, Carl	Field Artillery	Drumright, Okla.
Seaman	Voyles, Cliff S.	Navy	Drumright, Okla.
Second Lieutenant	Wade, A. Eearle	Field Artillery	Douglas, Okla.
Sergeant	Walker, Frank R.	Quartermaster	Hobart, Okla.
	Walker, W. F.		Hobart, Okla.
Corporal	Wallet, W. C.	Infantry	Stillwater, Okla.
	Wallingford, Arthur	Infantry	Sumner, Okla.
	Wallingford, Harold	Infantry	Sumner, Okla.
	Ware, Archie	Infantry	Stillwater, Okla.
Captain	Warlick, Lester		Gray, Okla.
Private	Warren, Nelson	Medical	Adair, Okla.
Corporal	Watkins, C. L.	Infantry	Stillwater, Okla.
	Watkins, C. O.	Quartermaster	Helena, Okla.
Captain	Watson, Dallas H.	Coast Artillery	Chandler, Okla.
Lieutenant	Watson, Frank	Infantry	
Corporal	Watson, L. Glenn	Aviation	Stillwater, Okla.
Sergeant	Watson, W.	Infantry	Oklahoma City, Okla.
Major	Watson, W. P.	Coast Artillery	Dayton, Ohio.
Sergeant	Weatherford, Curtis	Medical	Poteau, Okla.
	Weaver, Earl	Medical	Stillwater, Okla.
Lieutenant	Weaver, W. C.	Marine	Stillwater, Okla.
	Webb, Arthur	Infantry	
Second Lieutenant	Webb, Howard	Medical	Broken Arrow, Okla.
Corporal	Webb, Nix	Engineers	Tipton, Okla.
*Lieutenant	Webb, Robert	Engineers	St. Louis, Mo.
	Weber, A. G.	Medical	Calumet, Okla.
Corporal	Welch, Don	Field Artillery	Norman, Okla.
	Welsh, D. H.		Ponca City, Okla.
	Wanner, David		Guthrie, Okla.
	Wertz, Leo		Conway, Ark.
	Wertz, Bradley	Infantry	Purcell, Okla.
Lieutenant	West, Eugene M.	Field Artillery	Warner, Okla.
Sergeant	Wheeler, John	Engineers	Ardmore, Okla.
Lieutenant	Whipple, Floyd	Medical	Stillwater, Okla.
Private	Whistler, Elbert W.	Marine	Boynton, Okla.
Ensign	Whistler, John	Navy	Boynton, Okla.
	White, Eddie Lee	Infantry	Leedey, Okla.
First Lieutenant	White, H. H.	Engineers	Oklahoma City, Okla.
Sergeant	Whitford, T. H.	Infantry	Stillwater, Okla.
Corporal	Whitford, Thos. H.	Engineers	Jones, Okla.
Second Lieutenant	Whitlock, Ernest	Artillery	Mangum, Okla.
Captain	Whittenberg, Geo.	Infantry	Drumright, Okla.
Second Lieutenant	Witteh, Val R.	Infantry	Stillwater, Okla.
First Class Musician	Whyte, Paulyte	Band	Okemah, Okla.
	Wiggs, Elsie J.	Red Cross	Manford, Okla.
	Wiggs, Harry	Medical	Manford, Okla.
Lieutenant	Wilber, Phil A.	Artillery	Guthrie, Okla.
Sergeant	Wilber, Persing	Aviation	Coyle, Okla.

*In training camp when armistice was declared. **Deceased.

Rank	Names	Branch of Service	Home Address
	Wildman, Arthur	Engineers	Dupont, Ind.
	Wildman, Harry		Geary, Okla.
Lieutenant	Wiley, Ross L.	Infantry	Stillwater, Okla.
	Wilkins, R. B.	Aviation	Stillwater, Okla.
	Will, Delbert	Engineers	Manford, Okla.
Lieutenant	Williams, Armon	Infantry	Marshall, Okla.
	Williams, Elbert	Machine Gun	Mangum, Okla.
	Williams, Julian	Infantry	Tishomingo, Okla.
	Williams, Slyvester		Mangum, Okla.
Captain	Williamson, Emery	Infantry	Stillwater, Okla.
Corporal	Willis, Russian	Infantry	Sweetwater, Okla.
	Willman, Herbert		
	Willman, Roy		Geary, Okla.
Lieutenant	Wilson, Clay E.	Field Artillery	Stillwater, Okla.
Lieutenant	Wilson, Dave L.	Field Artillery	Shawnee, Okla.
Lieutenant	Wilson, Jno.	Field Artillery	Shawnee, Okla.
Private	Wilson, Edw. L.	Infantry	Fort Towson, Okla.
	Wilson, J. M.	Merchant Marine	Fairfax, Okla.
Lieutenant	Wilson, Virgil P.		
	Wilson, W. A.	Aviation	Magnolia, Ark.
Second Lieutenant	Wilson, Wilber L.	Infantry	
Second Lieutenant	Witte, Harold	Engineers	Wilkinsburg, Pa.
Sergeant	Wohlbrandt, Philip	Engineers	Custer City, Okla.
	Wolf, Orville		
Lieutenant	Womble, M. B.	Engineers	Tulsa, Okla.
Sergeant	Woodruff, Wayne E.	Engineers	Wellington, Kans.
	Woods, Dana	Infantry	Orienta, Okla.
	Woods, Ed	Infantry	Altus, Okla.
Coxswain	Woods, W. P.	Navy	Stillwater, Okla.
First Lieutenant	Woodson, Mortimer	Field Artillery	Walter, Okla.
Lieutenant	Woodworth, L. T.	Artillery	Guthrie, Okla.
Sergeant	Woodworth, Louis E.	Field Artillery	Guthrie, Okla.
Sergeant	Woolard, Alonzo	Clerk	Stillwater, Okla.
Private	Wortman, Wilson	Air Service	Lysander, N. Y.
	Wright, E. R.	Hospital	
	Wright, A. L.	Quartermaster Corps	Stillwater, Okla.
Chief Gunner	Wyant, L. D.	Navy	Fairview, Okla.
	Young, Joseph		Stillwater, Okla.
First Class Musician	Young, R. E.	Band	Aransas Pass, Tex.
Lieutenant	Zalabak, Wm.	Quartermaster	Kingfisher, Okla.
Sergeant	Zears, Chas.	Quartermaster	Sandoval, Ill.

MEMBERS STUDENTS' ARMY TRAINING CORPS IN OKLAHOMA A. & M. COLLEGE

Ables, Edward W.	Anderson, Garland M.	Atchison, William D.
Adair, Preston L.	Ahrberg, Fred W.	Aynesworth, James L.
Adams, Paul G.	Arnold, Samuel H.	
Ahern, Raymond F.	Arrington, Charles A.	
Bailey, Price	Bell, James H.	Bradshaw, Claud A.
Baker, Kenneth R.	Bell, Joe Edgar	Briggs, Ancel B.
Baker, Oral	Bellis, Charles E.	Briscoe, Frank
Bandelier, George E.	Bieberdorf, Gustav A.	Brooks, Robert N.
Bandy, Irving V.	Bishop, John L.	Brower, Frank K.
Barnard, Harvey S.	Bishop, Willie J.	Brown, Rue W.
Barrett, Silas S.	Blakeley, William F.	Brown, Tulley E.
Bateman, Harry E.	Blattler, Paul Z.	Bryan, Mason H.
Baughman, Robert H.	Bonham, Wendell W.	Brunskill, Don W.
Beanblossom, Floyd Z.	Boothe, Edwin C.	Bubb, Martin H.
Beaty, Audis A.	Bottger, Howard	Burnett, Merrill F.
Beill, Cecil W.	Boyer, Jack B.	Butler, William R.
Cadenhead, Charles A.	Clark, Donald G.	Colbert, Abijah
Calame, Carroll E.	Clayman, Milton W.	Cole, Bennett S.
Canfield, Roy E.	Clump, Thomas D.	Coles, George L.
Carleton, Howard	Coats, Harold E.	Cotter, John H.
Carmichael, Claud S.	Cobb, Samuel S.	Crane, Alvin C.
Chambers, Harry M.	Cogburn, Berl	Crow, James C.
Chambers, Lloyd S.	Colbaugh, Samuel G.	Crowell, Howard C.
Chapman, John A.	Colbaugh, William F.	

Dale, Dean
Dale, Thomas
Darlow, Albert E.
Davis, Gomer A.
Davidson, Paul W.
Deen, Will J.
Denham, Roger S.
Denton, Guy V.
Denton, Raymond W.
Dickerson, Lewis L.
Dickey, Frank K.
Dillon, Ernest H.
Dixon, Herbert L.
Dolphin, Philip M.
Donahue, Frank
Donovan, Dennis E.
Douglas, Claude S.
Downey, Robert L.
DuBois, Robert K.
Duncan, Currie R.
Duncan, Ray A.

East, James D.
Edwards, Marvin L.
Elledge, Everard A.
Esslinger, Charles A.
Ethridge, Ernest R.

Farr, Doane R.
Fatheree, Claud
Fennema, Pete
Fenton, Paul D.
Fetzer, Dale C.
Fewel, Rollo G.
Finney, Whitham D.
Floydd, Rossie
Flynt, Gene W.
Folk, Joe W.
Folk, John B.
Fooshee, George T.
Franklin, Frederick E.
Freeman, Irby A.
French, Myron L.
Friedemann, Adolph
Friedemann, Otto H.
Friedemann, Paul
Friman, Raymond A.
Frost, Reuben L.
Fry, Ralph B.
Futoransky, Henry

Gaines, Ralph E.
Gawf, David L.
Glendenning, George W.
Gourley, William L.
Graham, William J.
Gray, Earl W.

Hahn, Lester J.
Halbrook, John R.
Ham, Joe S.
Hand, Dent N.
Hanner, Russell E.
Hardwick, Bryan D.
Hardwick, Paul M.
Haston, Clyde D.
Tatch, Thomas J.
Hatfield, Albert L.
Hayman, George C.
Head, Ralph
Hendrix, Rex B.
Hensley, Wayne T.
Herron, Frank B.
Hertzler, Welcome E.
Heywood, Nathaniel B.
Hickerson, Carl W.
Hickman, Fitz W.
Higgins, Peter G.
Hildebrand, Richard D.
Hill, Elmer Y.
Hinson, Marcus W.
Hinton, Walter H.
Hixson, Herschel F.
Hirzel, Homer H.
Hodge, Aaron M.
Hollingshead, Estell C.
Holman, Lynn W.
Horne, Arthur E.
Horner, Jerry R.
Horner, John K.
Hostetter, James E.
Hougthton, Osgood E.
Hubentral, Harry K.
Hudiburg, Jos A.
Hughes, Willie H.
Hunt, Hurley R.
Hunter, Oscar L.
Hurford, John R.

Ingram, Claude
Ingram, Clyde
Ingram, James H.
Ingram, Will

Jackson, John W.
Jones, Chauncey H.
Jones, Ray C.
Jones, Thomas R.
Jordan, Bert O.
Jucksch, Edward R.

Katz, Sigmund
Keene, Paul V.
Keiffer, Roscoe F.
Keller, Clifford S.
Kidd, Robert E.
Kimbell, Ben R.
Kirby, Dallas J.
Kniseley, Clarence W.
Kniseley, Bertram F.
Kollar, Schuyler F.
Kornegay, Wade H.
Kratzer, Roy E.
Kugell, Harry G.
Kuhlmeier, Leslie

Landers, Moscow L.
Lawhorn, Allen E.
Lemmons, Haven D.
Locke, Ira A.
Long, William H.
Ludwick, Russell W.
Lyon, Leonard J.

Mann, Robert W.
Marcia, Glen E.
Markley, Theodore
Marshall, Joseph J.
Matthews, Roy C.
Means, Joseph E.
Means, Richard V.
Meredith, John B.
Merrill, Roy B.
Minter, Abner B.
Moelling, Henry A.
Molacek, Thomas E.
Moody, Cecil F.
Moore, Glen O.
Morris, Glen W.
Morrison, Edward L.
Morse, William O.
Moser, Roy W.
Murphy, Henry F.
Murray, James P.
Murray, James P.
Murray, Vernon E.
Myers, Harley B.

McCurley, Alvin D.
McCullough, Lloyd E.
McGowan, William L.
McKay, Earl S.
McKemie, Glen W.
McKinnon, John J.
McKnight, Emmett F.
McMillan, Martyn B.
McMurtry, Jett
McNutt, Harry B.

Nash, Orman P.
Neal, William J.
Nelson, George J.
Nelson, Iron H.
Norman, Sims
Nowlin, John S.

Osborne, Eugene D.
Outhier, Rolland C.

Park, Henry C.
Beeler, Roy C.
Perryman, Levi
Pickard, Frank
Pratt, Roy O.
Pierson, James W.
Pullen, Roy E.

Raines, Leo E.
Randolph, Robert R.
Ray, Wilbur T.
Reeder, Dewey F.
Ress, Curtis V.
Rhoads, Philip J.
Richardson, Mack L.
Roach, James F.
Robison, Eugene
Roddy, Earl T.
Rogers, Royal G.
Rogers, Tipton
Rogers, William S.
Rusher, Harold G.
Ryan, Dana C.

Sadlo, Edward C.
Saint, Robert L.
Schlehuber, Frank
Schutten, Floyd C.
Scott, Frank L.
Shanklin, Roscoe M.
Shannon, Raymond D.
Shockley, Robert W.
Sibley, Robert H.
Simpson, Harry B.
Smart, Harold A.
Smith, Carl H.
Smith, Harry E.
Smith, Homer D.
Smith, James M.
Smith, Jess S.
Snedaker, Frank W.
Soule, Clayton E.
Soule, Eugene F.
Spencer, Len
Stafford, Fred T.
Stafford, Joseph D.
Starke, Leonard B.
Steele, Milan G.
Sterne, Tom C.
Stevens, Carl A.
Stewart, James R.
Stewart, John F.
Stone, Blair H.
Street, Harold L.
Stubblefield, Ewart E.
Sturgis, Alden C.
Sublett, Taylor L.
Sutton, Carl S.

Tabor, Paul S.
Taylor, Fred B.
Terry, Robert E.
Tesone, Silver
Tilton, Richard T.
Trekell, Lester W.
Tully, Lawrence B.
Turk, Irving B.
Tyler, Dola

Varnum, Robert D.
Venable, Floyd D.
Venables, Perry N.
Vermillion, Jesse E.

Wainscott, Lewis B.
Walcott, James C.
Walker, Allen C.
Walker, Harold T.
Walker, Morgan N.
Wallace, William A.
Watkins, Albert J.
Weaver, John W.
Webb, Guy P.
Wells, Cecil G.
Wells, Thomas, D.
Westfall, August F.
White, Eddie P.
White, Oscar A.
Wilbur, Herbert F.
Williams, Ben F.
Williams, Dave S.
Wilson, Hubert C.
Wilson, Joseph D.
Wilson, Elton T.
Wilson, Kenneth T.
Wilson, Patrick W.
Winsett, Donald L.
Witcher, Otis
Wolff, John P.
Wood, Paul H.
Woodring, Harry C.
Word, Charles V.
Word, Edwin W.
Worsham, Francis W.
Wyatt, James W.
Wycoff, George R.

Yocum, Clarence E.
Young, James C.

Zalabak, Tony B.
Zeigler, Raymond A.

REGISTER OF STUDENTS

The classification of students is indicated by the following abbreviations:

Agri., School of Agriculture; V. A., Vocational Agriculture; M. E., Eechanical Engineering; C. E., Civil Engineering; E. E., Electrical Engineering; Arch., Architecture; Ch. E., Chemical Engineering; H. E., School of Home Economics; V. H. E., Vocational Home Economics; S. and L., School of Science and Literature; Edu., School of Education; V. E., Vocational Education; C. and M., School of Commerce and Marketing; V. M., School of Veterinary Medicine; Sec., Secondary School; Bus., Business; P. C. A., Practical Course in Agriculture; P. C. E., Practical Course in Engineering; S. A. T. C., Students' Army Training Corps; S. S., Summer Session; Uncl., Unclassified; 1-2, first and second semester, respectively.

Graduate Students

Bandelier, Geo., B. S., 1918 ..... Stillwater
Burke, Elizabeth, B. S., 1913 ..... Stillwater
Du Bois, Robert, 1918, Carleton College ..... Stillwater
Fellows, Reeda, B. S., 1917 ..... Stillwater
Fennema, Nick, B. S., 1915 ..... Lawton
Gordon, Mae Frances, B. S., 1916 ..... Stillwater
Harrison, Mrs. Mitchell, B. S., 1915 ..... Stillwater
Lauderdale, Ruby, B. S., 1918 ..... Stillwater
McCarrel, Fred, B. S., M. S., 1918 ..... Stillwater
Nelms, E. B., B. S., 1918 ..... Stillwater
Oldham, Rhodella, B. S., 1917 ..... Stillwater
Priest, Stella, B. S., 1912 ..... Stillwater
Spencer, J. R., B. S., 1918 ..... Stillwater
Talbot, Nora, B. S., 1910 ..... Stillwater

Undergraduate Students

NAME	COURSE		ADDRESS
Abbott, Vern	Bus.	SS.-1-2	Stillwater
Ables, Edward M.	Agri., Fr., S. A. T. C.	1	Grant
Adair, Preston L.	S. A. T. C.	1	Holdenville
Adams, Paul G.	Agri., Fr., S. A. T. C.	1	Lucien
Ahern, Raymond F.	M. E., Jr., S. A. T. C.	1-2	Ardmore
Ahrberg, Fred W.	Agri., Soph., S. A. T. C.	1-2	Stillwater
Aikins, Grace Fay	Edu., Fr.,	1-2	Stillwater
Aikins, Grace M.	H. E., Jr.	1	Lamont
Akers, Eleanor	Sec.	1-2	Stillwater,
Akers, Evealin	Sec.	1-2	Stillwater,
Albright, R. Grady	Engr., Fr.	-2	Sulphur
Aldridge, Clarice M.	Edu., Soph.	1-2	Manchester
Alexander, Nell	H. E., Sr.	1-2	McKenzie, Tenn.
Amend, Paul J.	Uncl.	1	Elk City
Anderson, Andy	Edu., Jr.	1-2	Idabel
Anderson, Barbara	Engr., Fr.	1-2	Gotebo

NAME	COURSE		ADDRESS
Anderson, A. Erick	Bus.	1-2	Geary
Anderson, Garland M	Engr., Fr., S. A. T. C.	1	Clinton
Anderson, E. Orion	Trades	1	Guthrie
Andrews, Grace	Edu., Fr	-2	Stillwater
Antle, Edna Reba	Bus.	-2	Sumner
Armstrong, Ola	H. E., Sr	1-2	Chandler
Arnett, Irving	Sec.	1-2	McLoud
Arnold, S. Houston	Ch. E., Soph., S. A. T. C.	1-2	McLoud Cordell
Arrington, Chas. A	Ch. E., Soph., S. A. T. C.	1-2	Lindsay
Arrington, Emmitt	Trades	1-2	Lindsay
Atchison, Dewey	S. A. T. C.	1	Shawnee
Aynesworth, Jas. L	S. A. T. C.	1	Childress, Tex.
Badger, Frances	Edu., Fr	1-2	Pawnee
Badgley, Eva	Sec.	1-2	Cantonment
Badgley, Reva	Sec.	1-2	Cantonment
Bailey, Lucile	Edu., Fr	-2	Stillwater
Bailey, Price	S. A. T. C.	1	Altus
*Baker, John	Agri., Sr	1-2	Stillwater
Baker, Ora	Bus.	1	Stillwater
Baker, Kenneth R	S. A. T. C.	1	Muskogee
Baker, Oral	Engr., Fr., S. A. T. C.	SS-1-2	Stillwater
Baker, Willard	Sec.	1-2	Stillwater
Bakhaus, Orville	C. and M., Fr	1-2	Castle
Baldwin, Mary Bernice	H. E., Fr	1-2	Anadarko
Baldwin, Myrtie	Edu., Jr	1-2	Anadarko
Bales, Loraine	Sec.	1	Perry
Bandelier, Eugene	Sec.	1	Stillwater
Bandy, Vernon I	S. A. T. C.	1	Weatherford
Bangle, Wash	Trades	1	Tulia, Tex.
Barnard, Harvey	S. A. T. C.	1	Tulsa
Barr, Mourine	Sec.	1-2	Stillwater
Barron, Merle W	E. E., Soph	-2	Stillwater
Barrett, Flavius L	Engr., Fr	1-2	Claremore
Barret, Silas	Agri., Soph. S. A. T. C.	1-2	Ryan
Bartlett, B. A	Sec.	1-2	Ripley
Bartlett, L. Roy	V. A	1	Mulhall
Bartow, Dorthy	Edu., Fr	1-2	Stillwater
Bartow, Helen	V. H. E	1-2	Stillwater
Bartow, John	Trades	1-2	Okfuskee
Bass, Zella	H. E., Fr	1-2	Enid
Bateman, Clara	Sec.	SS-1-2	Soper
Bateman, Harry	S. A. T. C.	1	Collinsville
Baty, Anna	Edu., Jr	1-2	Stillwater
Baughman, R. H	S. A. T. C.	1	Ponca City
Beanblossom, Floyd	Agri., Fr., S. A. T. C.	1	Girard, Ill.
Beaty, Audis	S. A. T. C.	1	Shamrock, Tex.
Beatty, Helen	Edu., Soph	1-2	Helena
Beckham, Ivan	Engr., Fr	1-2	Walter
Beeson, Evalyn	Uncl.	1-2	Stillwater
Beeson, Wilhelmine	Uncl.	-2	Stillwater
Beil, Cecil W	Engr., Fr., S. A. T. C.	1-2	Sapulpa
Bell, Jas. Horace	C. and M., Fr., S. A. T. C.	1-2	Oklahoma City
Bell, Joe E	S. A. T. C.	1	Purcell
Bellis, Chas	Agri., Sr., S. A. T. C.	1-2	Stillwater
Bentley, Louise	H. E., Fr	1-2	Stillwater
Bentley, Walter	Sec.	1-2	Stillwater
Benton, Glenn	Sec.	1	Madill
Berkheimer, Miriam	H. E., Soph	1-2	Stillwater
Bernhart, Faxon	Bus.	1-2	Drumright
Berry, Edna E	Bus.	1-2	Stillwater
Berry, Jane	Bus.	1-2	Stillwater
Best, Simon G	Uncl.	1	
Betty, Willis	Sec.	1	Emporia, Kans.
Bever, Mrs. Flora	Uncl.	1	Stillwater
Bever, Hazel M	H. E., Sr	SS-1-2	Stillwater
Bever, Inez	Sec.	1-2	Stillwater
Bever, F. Leo	C. E., Sr	1-2	Stillwater
Bieberdorf, Fred W	Trades	1-2	Orlando
Bieberdorf, Gustav	Agri., Fr., S. A. T. C.	1-2	Orlando

*Deceased.

NAME	COURSE		ADDRESS
Biggerstaff, Harmon	V. A.	1-2	Medford
Bigley, Wm. Earle	V. A.	-2	Wichita
Bigley, Blanche Glass	Bus.	1-2	Wichita
Bilyeu, Floyd M.	C. and M., Sr.,		Morrison
Bingaman, Carl	S. A. T. C.	1	Stillwater
Bingaman, Goldie	Bus.	1-2	Stillwater
Bird, Gertrude	H. E., Fr.	1-2	Ryan
Bird, Jack	Agri., Fr.	SS-1-2	Ryan
Bishop, Lester	C. and M., Fr., S. A. T. C.	1-2	Stillwater
Bishop, Willie	Bus., S. A. T. C.	1-2	Madison, Kans.
Bissell, E. F.	Sec.	1	Doby Springs
Bitman, Walter	Sec.	1-2	Perry
Black, Allen	Trades	1	Camargo
Black, Mary Ann	H. E., Fr.	1-2	Milwaukee, Wis.
Black, Lizabel	H. E., Fr.	1-2	Milwaukee, Wis.
*Black, Ora A.	Uncl.	1	Camargo
Blakely, Horace	Sec.	1-2	Wetumka
Blakeley, M. A.	Trades	1	Avery
Blakeley, Will F.	S. A. T. C.	1	Helena
Blattler, Paul	S. A. T. C.	1	Enid
Blevans, Hazel E.	Bus.	1	Joseph, Ore.
Block, F. H.	S. and L., Soph.	-2	Thompson, N. D.
Blouin, Dorcas	Bus.	SS-1	Stillwater
Boehs, William	V. A.	1	
Boerner, Carl	Engr., Fr.	-2	Sparks
Bohrer, Maude	Bus.	1-2	Stillwater
Boland, Ray	Trades	1-2	McLoud
Bollinger, Dora	H. E., Fr.	1-2	Talihina
Bollinger, Philip	C. and M., Soph.	-2	Kiowa
Bolyard, N. Wayne	Engr., Fr.	1-2	Lindsay
Bomark, Edna	Sec.	1	Pawnee
Bonham, Wendell W.	Agri., Jr., S. A. T. C.	1-2	Keota
Booker, Dosha	Edu., Fr.	-2	Headrick
Boone, Velma	Sec.	1	Fort Worth, Tex.
Booth, Edwin C.	S. A. T. C.	1	Cordell
Bose, Carl	V. E.	1-2	Bessie
Bose, Edward John	V. E.	1-2	Bessie
Bottger, Howard W.	Uncl.	1	Oklahoma City
Bowers, Copeland C.	Trades	1	Stillwater
Bowling, J. A.	Edu., Fr., S. A. T. C.	SS-1-2	Checotah
Boyd, Faye	H. E., Soph.	1-2	Hooker
Boyer, Jack	S. A. T. C.	1	Morrison
Boyer, Merle	S. A. T. C.	1	Morrison
Bradshaw, Claude	Engr., Fr., S. A. T. C.	1-2	Centralia
Brandenburg, C. H.	S. A. T. C.	1	Yale
Breinholt, Thelma	Sec.	1-2	Billings
Breinholt, Gladys	Sec.	1-2	Billings
Brewster, A. H.	Sec.	1	Lindsay
Bridge, J. M.	Engr., Fr.	1	Enid
Bridge, Ward	Trades	1	Chandler
Briggs, A. Berne	Edu., Soph.,		
Briggs, Helen	S. A. T. C.	SS-1-2	Stillwater
	Sec.	SS-1-2	Stillwater
Briscoe, Frank	Engr., Fr., S. A. T. C.	1-2	Perry
Brock, Geo. Clark	Uncl.	1	Perry
Brokey, Phil	Bus.	1	Fairfax
Brooke, Alma	H. E., Fr.	1	Ardmore
Brooke, Elsie	Bus.	1	Stillwater
Brooks, Robt N.	S. A. T. C.	1	Chickasha
Brower, Belle	H. E., Sr.	1-2	Luther
Brower, Frank	Bus., S. A. T. C.	1-2	Thomas
Brown, Bainbridge	Sec.	1-2	Sparks
Brown, Ella B.	Bus.	SS-1	Sulphur
Brown, Floyd	S. A. T. C.	1	Purcell
Brown, Ida	Sec.	1-2	Washington, Kans.
Brown, Rue W.	E. E., Soph., S. A. T. C.	SS-1-2	Oklahoma City
Brown, Tulley	S. A. T. C.	1	Ryan
Brown, V. Wm.	Sec.	1	Pond Creek
Brunskill, Don W.	C. and M., Fr., S. A. T. C.	1-2	Elgin
Bryan, Mason H.	S. A. T. C.	1	Stillwater
Bubb, Martin H.	S. A. T. C.	1	Woodward

*Deceased.

NAME	COURSE		ADDRESS
Bullard, Orene	Bus.	1-2	Orienta
Bulling, Edna	Sec.	1-2	Orlando
Bullock, Elois	Edu., Fr	SS- -2	Stillwater
Bumpas, J. L.	Bus.	1	Altus
Bunyard, D. I.	Trades	1	Enid
Burford, Mamie	H. E., Soph	1	Waukomis
Burnett, M. Frank	S. A. T. C.	1	Moorewood
Burnham, Alice	H. E., Sr	SS-1-2	Stillwater
Burnham, Cecil	Sec.	-2	Warwick
Bush, Lee	Trades	1	Comanche
Bush, Nola	Sec.	1-2	Comanche
Bushnell, Iona Ellen	Bus.	SS-1-2	Stillwater
Butler, Ralph	S. A. T. C.	1	Burbank
Butler, Oram J.	M. E., Jr	-2	Waukomis
Butler, Ruth	H. E., Fr	1-2	Guthrie
Byfield, Ethel	Bus.	1-2	Orienta
Cadenhead, Charles	S. A. T. C.	1	Shamrock
Calame, Carroll	E. E., Soph., S. A. T. C.	1-2	Stillwater
Calavan, Louis	Sec.	1-2	Kingfisher
Calavan, Spencer F.	Trades	1-2	Kingfisher
Caldwell, Lanore	H. E., Fr	1-2	Stillwater
Caldwell, Zenil	Sec.	-2	Stillwater
Callaway, Irene J.	Sec.	1-2	Foyil
Callaway, Marshall	Sec.	1-2	Foyil
Callerman, Mrs.	Uncl.	-2	Stillwater
Campbell, Chas. L.	Bus.	-2	Oklahomoa City
Campbell, Helen	H. E., Soph	SS-1-2	Stillwater
Campbell, Pearl	Bus.	1	Stillwater
Campbell, Sam A.	Sec.	SS-1	Oklahoma City
Campbell, Wm. David	Sec.	1-2	Geary
Canfield, Roy E.	Ch. Engr., Fr S. A. T. C.	1-2	Yale
Cantrell, Louie	Sec.	1	Cushing
Cantwell, Carolyn	S. and L., Sr	SS-1-2	Stillwater
Cantwell, Christine	Sec.	SS-1-2	Stillwater
Cantwell, Robert W.	E. E., Fr	-2	Stillwater
Carleton, Howard	Agri., Fr., S. A. T. C.	1-2	Cooperton
Carleton, Lee	Sec.	1	Cooperton
Carlisle, Robert	Trades	-2	Stillwater
Carlson, Alice	H. E., Sr	1-2	Meno
Carlson, Mabelle	Sec.	1-2	Meno
Carlson, Ollie	Sec.	1-2	Meno
Carlton, Gilby	Sec.	1-2	McLoud
Carlton, Oscar	C. and M., Fr	-2	McLoud
Carmichael, Claud S.	C. and M., Fr	1-2	Higgins, Tex.
Carter, Roy	S. A. T. C.	1	Okmulgee
Carter, Zaida	H. E., Fr	1-2	Stillwater
Carter, Samuel	Trades	1	Wakita
Casida, Victor M.	S. A. T. C.	1	Yale
Cass, Maude	H. E., Sr	1-2	Tulsa
Cavin, Charlie	Sec.	1	Mutual
Cawood, Howard	Bus.	1	Stillwater
Cermak, Lizzie	H. E., Fr	SS-1-2	Red Rock
Cermak, Wesley	Sec.	-2	Red Rock
Chambers, Harry M.	Agri., Fr., S. A. T. C.	1-2	Devol
Chambers, Lloyd	Agri., Fr., S. A. T. C.	1-2	El Reno
Chapman, John A.	S. A. T. C.	1	Sand Springs
Chapman, May	Bus.	1-2	Red Rock
Chase, Martin Ward	Agri., Jr.	-2	Ralston
Chase, Virgil R. D.	Sec.	1	Seminole
Chastain, H. W.	Uncl.	1	Stuart
Cheatham, Jas.	Sec.	1-2	Warwick
Chick, Herbert	Sec.	1	Perkins
Childers, Almeda	Sec.	1-2	Stillwater
Childers, Hazel	Bus.	1-2	Stillwater
Choate, Corneal	Sec.	1	Pauls Valley
Christmas, Bernice	H. E., Fr	1	Pond Creek
Christmas, George	Sec.	1-2	Pond Creek
Church, Ercyle	Sec.	1-2	Perkins
Churchill, Alton	Bus.	1	Fort Cobb
Churchill, Helen	Bus.	SS-1-2	Guthrie
Clarke, Donald G.	S. A. T. C.	1	Henryetta
Clark, H. G.	S. A. T. C.	1	McAlester
Clark, J. Kenneth	Sec.	1	Milburn
Clark, Granville	Bus.	1	Arlie, Tex.

NAME	COURSE		ADDRESS
Clark, Herbert L	Sec.	-2	Mutual
Clark, Mary	Sec.	SS-1-2	Stillwater
Clark, Elmer	Trades	1	Perkins
Clausen, Minnie	Bus.	1-2	Stillwater
Clausen, Jessie	H. E., Fr	SS-1-2	Stillwater
Clayman, Milton W	S. A. T. C.	1	Bartlesville
Clifton, Beatrice	Bus.	1	Perry
Clingenpel, Lillie	Sec.	SS-1-2	Stillwater
Clump, Thomas D	Agri., Fr., S. A. T. C.	1-2	Dover
Coats, Harold E	Engr., Fr., S. A. T. C.	1-2	Stillwater
Cobb, Lida Mae	H. E., Fr	1-2	Eddy
Cobb, S. S	S. A. T. C.	1	Wagoner
Cochrane, E. H	C. and M., Fr	1	Mills, N. M.
Coffman, Grace	Bus.	1	Shawnee
Cogburn, Berl	S. A. T. C.	1	Coalgate
Colbaugh, Fred	S. A. T. C.	1	Hominy
Colbaugh, Sam	S. A. T. C.	1	Hominy
Colbert, Abijah	Agri., Fr., S. A. T. C.	SS-1-2	Ada
Coolbert, Laura	V. H. E.	-2	Ada
Colby, Mrs. N. R	Bus.	1	Stillwater
Coldiron, Ray	Sec.	1	Pond Creek
Coldiron, Grace Yeargin	H. E., Fr	SS-1	Ponca City
Cole, Bennett	S. A. T. C.	1	Mannford
Coleman, Elston	Trades	1-2	Newkirk
Coles, George Leon	S. A. T. C.	1	Snyder
Collins, Blanche	Edu., Sr	SS-1-2	Stillwater
Collins, Mrs. Nannie	H. E., Fr	1-2	Enid
Collins, Thos	Bus.	1	Oklahoma City
Combs, Ralph B	Sec.	1	Ponca City
Compton, Margaret Platt	Bus.	1	Stillwater
Conner, Glen	Uncl.	1	Wichita Falls, Tex.
*Conner, James A	Uncl.	1	Wichita Falls, Tex.
Conrad, Ralph E	Engr., Fr	1-2	Cement
Conoway, Averd	Sec.	1	Quapaw
Coon, Minnie	V. H. E	1-2	Durant
Coppedge, Wm. H	C. and M., Jr	-2	Grove
Coppock, Irvin	Bus.	1	Drummond
Cornforth, Linton	Sec.	1	Harmon
Correll, Ellen	H. E., Fr	1-2	Stillwater
Correll, Lawrence E	Agri., Sr	-2	Stillwater
Cotter, John H	Sec., S. A. T. C.	1-2	Fort Cobb
Couch. Earl	Trades	1-2	Stillwater
Coulter, D. Jim	S. A. T. C.	1	Carnegie
Cowan, Hazel	Edu., Soph	1-2	Stillwater
Cowan, Ira	Sec.	-2	Cowlington
Cowan, J. B	Uncl.	1	Eddy
Crabbe, Hawley	Trades	1	Amity, Ark.
Crabtree, E. L	Bus.	SS- -2	Stonewall
Craft, Martin	Trades	1-2	Stillwater
Craft, Myrtle	Bus.	1-2	Stillwater
Craig, M. E	Uncl.	-2	Stillwater
Crain, Vernon	Bus.	1	Childress, Tex.
Crane, Alvin	S. A. T. C.	1	Morrison
Crawford, Kyle G	V. A.	-2	Mt. Selma, Tex.
Crawford, Vivian Eloyce	Edu., Fr	1-2	Blackwell
Crays, Irvin L	Trades	SS-1	Stillwater
Crockett, Marie	Bus.	1	Stillwater
Cross, Thelma	Bus.	SS-1-2	Stillwater
Crow, J. C	S. A. T. C.	1	Chattanooga, Tenn.
Crowell, Ferrell M	Engr., Fr	1	Burkburnett, Tex.
Crowell, Howard	S. A. T. C.	1	Burkburnett, Tex.
Crume, Leonard	Sec.	1-2	Tulia, Tex.
Crume, Gladys	Bus.	1	Stillwater
Crume, Ray	Trades	1-2	Okmulgee
Cruse, Paul F	Trades	1	Perkins
Cummings, Ina	Edu., Sr	SS-1-2	Stillwater
Curnutt, Vivian	H. E., Fr	1-2	Broken Arrow
Currie, Harry E	Agri., Fr	1-2	Shawnee
Dale, Dean	S. A. T. C.	1	Headrick
Dale, Donovan	Sec.	-2	May
Dale, Thomas	Edu., Fr., S. A. T. C.	1-2	Headrick
Danforth, Ben F	Trades	1	Billings

*Deceased.

NAME	COURSE		ADDRESS
Darlow, Albert E.	Agri., Sr., S. A. T. C.	1-2	Glencoe
Davidson, Frances	Edu., Soph.	SS-1	Stillwater
Davis, Con C.	Sec.	1-2	Spur, Tex.
Davis, Claude F.	Engr., Fr.	1-2	Medford
Davis, Dewey	Trades	1	Lahoma
Davis, Gomer A.	S. A. T. C.	1	Broken Arrow
Davis, Alice	Edu., Soph.	1-2	Ponca City
Davis, Robert A.	Sec.	-2	Spur, Tex.
Davison, Paul W.	S. A. T. C.	1	Reason
DeBois, Virginia	S. and L., Fr.	SS-1-2	Stillwater
Deel, Homer	S. A. T. C.	1	Davis
Deen, Will J.	C. and M., Fr., S. A. T. C.	1-2	Vinita
Defee, Mrs. Marion	Bus.	-2	Stillwater
Defee, Marion	Trades	1-2	Stillwater
De Grouchy, J. H. B.	Trades	1	Kiowa
Denman, Isola	Sec.	SS-1-2	Stillwater
Denman, Roger S.	Agri., Fr., S. A. T. C.	1-2	Stillwater
Dennis, Georgia	Bus.	1-2	Stillwater
Denton, Guy V.	S. A. T. C.	1	Blackwell
Denton, Raymond	S. A. T. C.	1	Blackwell
Derdeyn, Marcell H.	Agri., Fr.	1	Pauls Valley
Devine, Irma	Bus.	SS-1-2	Stillwater
Dick, John L.	Trades	1	Carnegie
Dickerson, L. L.	Arch., Soph., S. A. T. C.	1-2	Atoka
Dickerson, Mrs. L. H.	Bus.	1-2	Atoka
Dickey, Frank K.	S. A. T. C.	1	Olustee
Dillon, Ernest H.	S. A. T. C.	1	Woodward
Ditto, Vera	Bus.	-2	Avery
Dixon, Herbert L.	S. A. T. C.	1	Wewoka
Dixon, Horace C.	Agri., Fr., S. A. T. C.	1-2	Fairfax
Doll, Violet	Bus.	1	Yale
Dolphin, P. M.	Engr., Fr., S. A. T. C.	SS-1-2	Calumet
Donahue, Frank	S. A. T. C.	1	Ponca City
Donovan, Dennis E.	A. E., Soph., S. A. T. C.	1-2	Kremlin
Doty, Lucille	H. E., Sr.	SS-1-2	Stillwater
Doty, Tracy	Sec.	1	Tulsa
Douglas, Claude	S. A. T. C.	1	Wewoka
Douglass, Glen M.	C. E., Jr.	-2	Stillwater
Downey, Helen	H. E., Fr.	-2	Stillwater
Downey, Lucius	S. A. T. C.	1	Grant
Drake, Joe	Trades	1	Ponca City
Dressen, Louis J.	Trades	1-2	Woodward
Drolte, Velma	Bus.	1	Helena
Dryden, Marion	Trades	1	Stillwater
Dunagan, Glen H.	Bus.	1-2	Red Rock
Dunagan, Ura E.	Edu., Soph.	1	Beggs
Dunavan, Ralph A.	Engr., Fr.	SS-1-2	Enid
Duncan, Ray A.	Engr., Fr., S. A. T. C.	1-2	Glencoe
Duncan, Currie R.	Engr., Fr., S. A. T. C.	1-2	Kingston
Dunlavy, Henry E.	Agri., Sr.	1-2	Stillwater
Durkee, Jack F.	Sec.	1-2	Weleetka
Dutcher, Glen	Sec.	1	Anadarko
Early, Geo. A.	Sec.	1-2	
East, James	S. A. T. C.	1	Stillwater
Eaton, Edna L.	Edu., Fr.	SS-1-2	Skedee
Eaton, Cecil Howard	Sec.	1-2	Skedee
Eberhart, Anna	Bus.	1-2	Perkins
Edwards, M. L.	S. A. T. C.	1	Dodge
Egbert, D. Harold	Sec.	1-2	Chandler
Elledge, Audry	Sec.	-2	Howard, Kans.
Elledge, E. A.	S. A. T. C.	1	Oklahoma City
Elledge, L. E.	M. T., Fr.	1-2	Stillwater
Elliott, Virgil H.	Uncl.	1	Wynnewood
Ellithorp, Roy	Sec.	1-2	Meeker
Elrod, Clyde A.	Sec.	1-2	Lenapah
Emerson, Emma	Bus.	1	Stillwater
Emert, Elmina	Sec.	1-2	Stillwater
Emert, Glen O.	Trades	1-2	Stillwater
Emert, Mary	Sec.	1-2	Stillwater
Esserman, Abe	Uncl.	1	Drumright
Esslinger, Chas. A.	S. A. T. C.	1	Broken Arrow

NAME	COURSE		ADDRESS
Estle, Frank	Sec.	1	Sharon
Ethridge, E. R.	S. A. T. C.	1	Cold Springs
Evanhoe, B. M.	Sec.	1-2	Ralston
Evans, Levi A.	Bus.	1	Nash
Ewing, Uneeta	Bus.	1-2	Sharon
Fair, Jessie	Sec.	1-2	Idabel
Fairchild, Helen	Sec.	1-2	Morrison
Farnsworth, Lottie	Sec.	1-2	Tryon
Farr, Doane R.	S. A. T. C.	1	Clinton
Farr, Robert	Bus.	1	Orlando
Farrington, Wm. G.	Sec.	1-2	Anadarko
Fath, Geo. W.	Trades	1-2	Tonkawa
Fatheree, Claud	S. A. T. C.	1	Chickasha
Fellows, Leland	Sec.	1-2	Stillwater
Fennema, Pete	Agri., Soph S. A. T. C.	1-2	Lawton
Fenton, Paul	S. A. T. C.	1	Wagoner
Ferguson, Delmer	Trades	1	Carnegie
Ferguson, Sylvia	Bus.	SS-1-2	Stillwater
Ferguson, Thelma	Bus.	1	Stillwater
Fessenden, Hugh S.	Sec.	1	Chickasha
Fetzer, Dale C.	Agri., Soph., S. A. T. C.	1-2	Helena
Fewell, Rollo G.	Agri., Soph., S. A. T. C.	1-2	Muskogee
Filiere, Wm. H.	Trades	1	Perkins
Finnell, Lena	Sec.	SS-1-2	Orlando
Finnell, Martha	Sec.	SS-1-2	Orlando
Finney, Wm. D.	S. A. T. C.	1	Fort Cobb
Fisher, Teague S.	Agri., Sr.	-2	Clinton
Flesner, Otto	Trades	1	Stillwater
Fletcher, Ruth S.	Bus.	1	Stillwater
Florence, Wm. David	Engr., Fr.	1-2	Tulsa
Floyd, Rossie	Agri., Fr., S. A. T. C.	1-2	Vandalia, Ohio
Flynt, Eugene	S. A. T. C.	1	Kingston
Foliart, Emma	Sec.	1-2	Enid
Foliart, Jesse	Sec.	1-2	Enid
Folk, John B.	E. E., Sr.,		Lawton
Folk, Joe W.	E. E., Soph., S. A. T. C.	1-2	Lawton
Fooshee, Geo. T.	S. A. T. C.	1	Coalgate
Ford, Joan	Bus.	1-2	Mulhall
Foreman, Clifton	Bus.	-2	Chelsea
Forrester, Nell	H. E., Sr.	SS-1-2	Ashland
Fortner, Eunice	Bus.	1-2	Stillwater
Foster, Anna	Edu., Fr.	-2	Stillwater
Foster, Annabel Lee	Sec.	SS-1-2	Coyle
Foster, Don C.	C. and M., Fr.	-2	Kingfisher
Founten, Hugh A.	V. A.	-2	Collinsville, Tex.
Fox, Aletha	Bus.	1	Glencoe
Fraley, Martin	Trades	SS1	Hominy
Frank, H. Reginald	Trades	1	Oklahoma City
Franklin, F. E.	C. and M., Fr., S. A. T. C.	1-2	Childress, Tex.
Freemon, Irby A.	S. A. T. C.	1	Arnett
French, M. Leslie	S. A. T. C.	1	Olustee
Friedemann, Marie	Sec.	1-2	Stillwater
Friedemann, Adolph	Engr., Fr., S. A. T. C.	1-2	Stillwater
Friedemann, Otto H.	S. and L., Jr., S. A. T. C.	SS-1-2	Stillwater
Friedemann, Paul E.	Engr., Fr.,		
Friman, Raymond A.	S. A. T. C.	1	Wagoner
Frost, Mark	S. A. T. C.	1	Stillwater
	Sec.	1-2	Stillwater
Frost, Reuben	Agri., Sopr., S. A. T. C.	1-2	Stillwater
Fry, F. C.	Agri., Fr.	1-2	Thomas
Fry, Ralph B.	Agri., Fr., S. A. T. C.	1-2	Stillwater
Futoransky, Henry	S. A. T. C.	SS-1	Oklahoma City
Gaines, Ralph	S. A. T. C.	1	Afton
Galer, Herbert	Sec.	1	Nowata
Gardiner, Ruth Pelphry	H. E. Soph.	1	Shawnee
Garlock, Bertha	Sec.	SS-1-2	Richmond

NAME	COURSE	ADDRESS
Garringer, Clara	H. E., Soph	1-2 Medford
Garrison, Mrs. Effie	Uncl.	1 McLoud
Gault, Paul V.	Trades	1 Loco
Gawf, Lavern	S. A. T. C.	1 Muskogee
Gayman, Sue	H. E., Jr.	1-2 Tryon
Gearhart, H. B.	Sec.	1-2 Hobart
Geiger, Chester	Trades	-2 Kildare
Geiger, Robert	Trades	-2 Kildare
Gentry, Irma	C. and M., Fr.	1-2 Pawnee
George, Faber	C. E., Jr., S. A. T. C.	1-2 Ravia
Gibson, J. Lucien	Bus.	1-2 Grove
Gilbert, Bina May	Sec.	1-2 Salt Fork
Gilbert, Edith	Bus.	-2 Glencoe
Gilbert, Ruth	Sec.	-2 Salt Fork
Gilliam, Winnie	H. E., Jr.	1-2 Chandler
Glendening, Geo. W.	C. E., Jr., S. A. T. C.	1-2 Hartshorne
Goodan, Thelma	Bus.	SS-1-2 Stillwater
Goode, F. F.	Sec.	-2 Brinkman
Goodholm, Mrs.	Uncl.	-2 Stillwater
Goodholm, Ruth	S. and L., Fr.	1 Stillwater
Goodwin, Mrs. Mable	Edu., Fr.	-2 Stillwater
Goodwin, R. Q.	Edu., Soph.	SS-1-2 Stillwater
Goold, Christine	H. E., Sr.	1-2 Glencoe
Goold, Edward	Bus.	1-2 Glencoe
Goudelock, Wm. B.	Bus.	1-2 Oklahoma City
Goudelock, Walter D.	Bus.	1-2 Oklahoma City
Gould, Brenda	H. E., Fr.	1-2 Stillwater
Gound, Scottie	Engr., Fr.	1-2 Duncan
Gourley, Lawrence	Sec., S. A. T. C.	1-2 Grandfield
Graham, Robert	Trades	1-2 Standing Rock
Graham, Wm. Jacob	S. A. T. C.	1 Standing Rock
Grant, Estella	Sec.	1-2 Paden
Grant, Minnie	Sec.	1-2 Paden
Grantham, Mac	Sec.	1 Goodland
Graves, Estella	Sec.	SS-1-2 Stillwater
Graves, Eugene	Sec.	1-2 Perkins
Graves, Helen	Bus.	SS-1-2 Stillwater
Gray, Alonzo A.	Sec.	-2 Stillwater
Gray, Earle W.	E. E., Jr., S. A. T. C.	1-2 Guthrie
Green, Gertrude	H. E., Soph.	1 Wakita
Green, Harold	C. and M., Fr.	-2 Ardmore
Green, Horace	Sec.	1-2 Stillwater
Gren, Mary E.	Sec.	-2 Cestos
Green, Ralph	Sec.	1-2 Stillwater
Grene, A. D.	Uncl.	1 Vernon, Tex.
Greiner, Agnes	Sec.	1-2 Stillwater
Griffis, Max	Sec.	1 Bishop
Griggs, Bula	Sec.	1-2 Stillwater
Grimes, Lloyd L.	Trades	1 Prague
Groom, Frances	Bus.	1-2 Stillwater
Groves, Mamie L.	Sec.	1-2 Hominy
Groves, M. Wyonna	Sec.	1 Hominy
Grow, Ena	H. E., Fr.	-2 Clinton
Grubb, Glenn	Bus.	1-2 Maramec
Grummer, Norman	Sec.	1 Okarche
Guthrie, Bernice	S. and L., Fr.	1-2 Perry
Guthrie, Raymond K.	Sec.	1-2 Delaware
Hackett, Ben	Bus.	1-2 McAlester
Hahn, Lester J.	S. A. T. C.	1 Medford
Halbrook, Ruskin	S. A. T. C.	1 Yale
Haldeman, Robert	Trades	1-2 Mutual
Hall, Georgia	H. E., Jr.	1-2 Stillwater
Hall, Gertrude	Bus.	1-2 Stillwater
Hall, Virgil	Trades	1 Ponca City
Hallford, James W.	Sec.	-2 Foyil
Ham, Gertrude	Bus.	1-2 Stillwater
Ham, Joe	E. E., Sr., S. A. T. C.	1-2 Dickens, Tex.
Ham, Ola Lee	Bus.	1-2 Stillwater
Ham, Ruby	Bus.	1-2 Stillwater
Hammock, Mary Frank	Sec.	1 Roff
Hampton, Leo	Sec.	1-2 Blackburn
Hampton, Pearl	H. E., Fr.	1-2 Bradley
Hand, Dent	C. and M., Fr., S. A. T. C.	1-2 Salt Fork
Handy, Bertha	Bus.	1-2 Stillwater

NAME	COURSE	ADDRESS
Hanes, Alger	Sec.	1-2 Sageeyah
Hanmer, Russell	S. A. T. C.	1 Carney
Hanna, O'Lula	Edu., Sr.	SS-1-2 Braymer, Mo.
Hanna, O. D.	Uncl.	1 Ochiltree, Tex.
Hardwick, Bryan D.	S. A. T. C.	1 Calvin
Hardwick, Paul	S. A. T. C.	1 Calvin
Hardy, Abby W.	Uncl.	1-2 Shawnee
Hargis, Frank E.	Bus.	1-2 Oklahoma City
Harman, Mertal Irene	C. and M., Fr.	SS-1-2 Yale
Harman, Thelma	H. E., Fr.	1-2 Vinita
Harnden, Mrs. M. G.	Uncl.	SS -2 Stillwater
Harnden, Minnie	Uncl.	1 Stillwater
Harp, Juna Marie	Edu., Soph.	SS-1-2 Stillwater
Harp, Mrs.	Uncl.	-2 Stillwater
Harper, Lloyd C.	Trades	1 Mutual
Harrell, Leona E.	H. E., Fr.	1-2 Calvin
Hartenbower, Ione	H. E., Sr.	SS-1-2 Stillwater
Hartpence, Darland	Trades	1-2 Stillwater
Hartpence, Merle	Bus.	1 Stillwater
Harvey, Ruth	Uncl.	1-2 Stillwater
Hastings, Annie	H. E., Fr.	1-2 Perkins
Haston, Clyde	Agri., Sr.	SS-1-2 Glencoe
Haston, Dewey	Bus.	SS-1-2 Glencoe
Hatch, Thos. J.	Agri., Sr.	1-2 Enid
Hatfield, Albert L.	S. A. T. C.	1 Hydro
Hawkins, W. R.	Bus.	1-2 Portales, N. M.
Hawthorn, Roy	Sec.	1-2 Wetumka
Hawthorn, John N.	Bus.	1-2 Wetumka
Hayes, Alberta	Bus.	1-2 Red Rock
Hayman, George	S. A. T. C.	1 Enid
Hayman, Hattie D.	C. and M., Fr.	1-2 Enid
Haynie, John C.	Sec.	1 Pawhuska
Hazel, Onis	Sec.	SS-1 Altus
Head, Ralph	S. A. T. C.	1 Purcell
Heck, Cecil	Uncl.	-2 Helena
Heck, Helen	H. E., Fr.	-2 Helena
Helema, Mable	H. E., Soph.	1-2 Enid
Hendershot, Lucile	Bus.	1-2 Buhler, Kans.
Henderson, Charlie	Sec.	1-2 Tribbey
Henderson, Ora	Sec.	1-2 Tribbey
Hendricks, Frank	Trades	1 Madill
Hendrickson, Hugh	Sec.	-2 Boynton
Hendrickson, Margaret J.	H. E., Soph.	1-2 Boynton
Hendrickson, Theodore	Sec.	1 Kildare
Hendrix, Rex B.	C. and M., Soph., S. A. T. C.	1-2 Hobart
Henke, Ezra	Sec.	1 Tulsa
Henry, Walter	V. A.	1-2 Cestos
Hensley, Jess J.	Trades	1 Shady Point
Hensley, W. Lawrence	Trades	1 Cameron
Hensley, Wayne	S. A. T. C.	1 Okmulgee
Henson, Elmer D.	Sec.	1-2 Stillwater
Henson, Homer H.	Sec.	1-2 McLoud
Henson, Merritt	Sec.	1-2 Stillwater
Henson, Ralph D.	Sec.	1-2 McLoud
Herron, Frank B.	S. A. T. C.	1 Madill
Hertzler, Joy H.	Edu., Sr.	1-2 Aline
Hertzler, W. E.	S. A. T. C.	1 Aline
Hester, B. P.	Trades	1 Porum
Heusel, Anola	Sec.	1-2 Salt Fork
Heywood, N. B.	S. A. T. C.	1 Casey, Ill.
Hewett, Frank	Sec.	1-2 Middleberg
Hickerson, Carl W.	S. A. T. C.	1 McQueen
Hickman, Fitz W.	S. A. T. C.	1 Wichita Falls, Tex.
Hicks, Beatrice	H. E., Soph.	1-2 Chandler
Hicks, C. Raymond	Trades	1 Kendrick
Higgins, Pete G.	S. A. T. C.	1 Hugo
High, Ware	Sec.	1 Thackerville
Hildebrand, Richard	C. and M., Fr., S. A. T. C.	1-2 Stillwater
Hill, Elba N.	V. H. E.	1-2 Poteau
Hill, Elmer	Bus.	-2 Fairland
Hill, Elmer Yale	S. A. T. C.	1 Effa, Ark.
Hill, Jas. M.	Uncl.	1 Holdenville
Hinson, M. W.	Engr., Fr., S. A. T. C.	1-2 Eldorado

NAME	COURSE		ADDRESS
Hinkel, Wm. S.	Arch., Fr.	-2	Stillawter
Hinton, Walter H.	S. A. T. C.	1	Snyder
Hirzel, Homer H.	C. and M., Fr., S. A. T. C.	1-2	Guthrie
Hixson, F. Herschel	S. A. T. C.	1	Shawnee
Hobbs, Gladys	S. and L., Soph.	1-2	Doyle
Hodge, A. M.	S. A. T. C.	1	Childress, Tex.
Hogle, Ellen	H. E., Sr.	1-2	Stillwater
Holcomb, H. S.	Trades	1	Chaney
Hoke, Estelle	H. E., Soph.	-2	Stillwater
Hoke, Jesse W.	C. and M., Fr.	-2	Stillwater
Hollingshead, C. E.	Engr., Fr., S. A. T. C.	1-2	Lawton
Holloway, T. Lloyd	Bus.	1-2	Wellington, Tex.
Holman, Lynn W.	S. A. T. C.	1	Stuart
Holmes, Arthur M.	Trades	1	Hennessey
Holmes, Frances D.	Uncl.	1	Ponca City
Holmes, Raymond K.	Sec.	1-2	Mannford
Holt, Leona	Bus.	1-2	Stillwater
Holt, Mrs. Mabel	S. and L., Fr.	SS-1-2	Shawnee
Horn, Geneva	S. and L., Fr.	1-2	McKinney, Tex.
Horne, Arthur	S. A. T. C.	1	Blackwell
Horner, J. K.	S. A. T. C.	1	Alva
Horner, J. R.	C. and M., Fr., S. A. T. C.	1-2	Oklahoma City
Horton, Lula	Bus.	1-2	Stillwater
Hoskinson, Florence	Sec.	1-2	Stillwater
Hostetter, Eston	A. E., Sr., S. A. T. C.	1-2	Calumet
Houck, John	C. and M., Soph.	-2	Stillwater
Houck, Kathlein	H. E., Sr.	1-2	Stillwater
Houghton, Frank E.	S. A. T. C.	1	Guthrie
Howard, Russell	Trades	1	Hunter
Howell, Dora	Sec.	1-2	Fairview
Hoylman, Rhese	S. A. T. C.	1	Ponca City
Hubbard, H. H.	Sec.	1-2	Oklahoma City
Hubbard, O. E.	S. A. T. C.	1	Afton
Hubbard, Wayne	Sec.	1-2	Omega
Hubanthal, Harry K.	Engr., Fr., S. A. T. C.	1-2	Oklahomoa City
Huckstep, J. T.	Sec.	1-2	Stillwater
Hudiburg, Aubrey	S. A. T. C.	1	.....
Hughes, Erle	Sec.	1	Perry
Hughes, Muriel	Sec.	1	Perry
Hughes, Will	C. and M., Fr.	1	Ames
Hughes, Rebecca	Sec.	1	Morrisoon
Hughett, Merl L.	Sec.	1	Stillwater
Hull, Ernest E.	Bus.	1-2	Gray
Hume, Gladys V.	Bus.	SS-1-2	Stillwater
Hunt, Hurley	S. A. T. C.	1	Sharon
Hunt, Lucille	Sec.	1-2	Sharon
Hunter, Alice	H. E., Sr.	1-2	Mangum
Hunter, Gladys	Bus.	1-2	Stillwater
Hunter, Jane	H. E., Soph.	1-2	Mangum
Hunter, Oscar L.	Engr., Fr., S. A. T. C.	1-2	Shawnee
Hurford, John R.	Engr., Fr., S. A. T. C.	1-2	Shawnee
Hurst, Henry	Sec.	1-2	Orlando
Ingram, Claude	S. A. T. C.	1	Hollis
Ingram, Clyde	Agri., Fr., S. A. T. C.	1-2	Hollis
Ingram, Hall	S. A. T. C.	1	Gerty
Ingram, Will	S. A. T. C.	1	Okemah
Isenberg, Gilbert	Engr., Fr.	1-2	Stillwater
Isenberg, Olivia	H. E., Sr.	1-2	Stillwater
Isenberg, Verna	Edu., Sr.	SS-1-2	Stillwater
Ives, Maxwell	Agri., Fr.	1-2	Shawnee
Jackson, John W.	S. A. T. C.	1	Duncan
Jackson, Leo L.	Bus.	1-2	Shamrock
Jacobs, Bula	H. E., Fr.	1-2	Mangum
Jacobs, Joan	Sec.	1-2	Cleora
Jacobs, Louella	Sec.	1-2	Stillwater
Jacobs, Vading	Sec.	1	Cleora
Jeagle, Lorena	Bus.	1	Red Rock
Jamieson, Madge	Sec.	1	Wanette

NAME	COURSE		ADDRESS
Janes, Clyde	S. A. T. C.	1	Meno
Jehlicka, Ludwick	Sec.	1-2	Goltry
Jester, Louise	Edu., Fr.	SS-1-2	Stillwater
Johnson, Janie Mae	H. E., Soph.	1-2	Pawnee
Jones, Aline	Bus.	1-2	Glencoe
Jones, Chauncey	S. A. T. C.	1	Stillwater
Jones, Emily	Sec.	SS-1-2	Stillwater
Jones, Eva L.	Bus.	1-2	Ripley
Jones, Goldia	H. E., Soph.	1	Stillwater
Jones, Kate	Bus.	1-2	Mangum
Jones, Opal Clarence	Sec.	1	Ninnekah
Jones, Ray	C. and M., Fr., S. A. T. C.	1-2	Stillwater
Jones, Thomas R.	S. A. T. C.	1	Chickasha
Jones, Wm. Russell	Sec.	1	Duncan
Jones, Ruth	Sec.	1-2	Stillwater
Jordan, O. Bert	S. A. T. C.	SS-1	Cleveland
Jucksch, Edward R.	S. A. T. C.	1	Sapulpa
Kane, Cora	H. E., Jr.	1-2	Stillwater
Katz, Sigmund	Agri., Soph.	1-2	Sapulpa
Keating, Maude	Sec.	-2	Yale
Keene, Paul	Engr., Fr., S. A. T. C.	1-2	Weatherford
Keiffer, Roscoe F.	Agri., Soph., S. A. T. C.	1-2	Helena
Keith, Dovie	Bus.	-2	Stillwater
Keith, Lena	Bus.	1-2	Stillwater
Keller, Clifford S.	S. A. T. C.	1	Ryan
Kelly, Virginia C.	Bus.	-2	Cushing
Kelly, Edwin M.	Bus.	1-2	Pawnee
Kemper, Malcolm	Trades	1	Gage
Kennemer, Grace	Sec.	1-2	Glencoe
Kenyon, Freeda	H. E., Fr.	1-2	Kaw
Keown, Wm. H.	Trades	1	Morrison
Kerby, Macie	Bus.	1-2	Yale
Kessler, Clara	Bus.	-2	Bridgeport
Keys, Glenn	Sec.	1	Bigelow
Kidd, Robert E. L.	Engr., Fr., S. A. T. C.	1-2	Bristow
Kilpatrick, Maude	H. E., Sr.	1-2	Hunter
Kimbell, Ben Robert	S. A. T. C.	1	Altus
King, Daisy Mae	Bus.	-2	Stillwater
King, Nancy Ann	H. E., Soph.	SS-1-2	Enid
King, Vincent Leon	Sec.	1-2	Stillwater
Kinney, Fern	Sec.	SS-1-2	Yale
Kinney, L. Fred	Trades	1-2	Yale
Kirby, Dallas	S. A. T. C.	1	Devol
Klein, Gilbert F.	Trades	1	Wetumka
Kitchin, Minta C.	Bus.	SS-1-2	Terrell, Tex.
Knight, Eugene	Agri., Sr.	-2	Stillwater
Knight, Fred	Sec.	-2	Stillwater
Knight, Theo. Ivan	Sec.	1-2	Stillwater
Knight, Joe	Trades	1-2	Stillwater
Knipe, Streeter	Trades	1-2	Perkins
Kniseley, B. F.	S. A. T. C.	1	Checotah
Kniseley, Clarence W.	S. A. T. C.	1	Glencoe
Kollar, F. S.	Agri., Fr., S. A. T. C.	1-2	Wodoward
Kornegay, W. H., Jr.	S. A. T. C.	1	Vinita
Kraemer, Florence	H. E., Soph.	1-2	Perry
Kramer, Glenna	Edu., Soph.	1-2	Maramec
Kramer, Lloyd	Sec.	1-2	Maramec
Kramer, Teddy	Sec.	1-2	Maramec
Kratzer, Florence	Bus.	1-2	Red Rock
Kratzer, Roy E.	Engr., Fr., S. A. T. C.	1-2	Red Rock
Krisher, Franklin J.	S. A. T. C.	1	Walter
Kroutil, Edward	Bus.	1-2	Prague
Kugel, Harry	S. A. T. C.	1	Salt Fork
Kuhlmeier, Leslie	C. and M., Fr., S. A. T. C.	1-2	Hunter
Lahr, Herbert G.	Agri., Jr.	-2	Waynoka
Landers, M. Leo	C. and M., Fr., S. A. T. C.	1-2	Cushing
Landsaw, Robert	Sec.	1-2	Chandler
Langton, Mrs. S. F.	Edu., Fr.	-2	Stillwater
Lau, John E.	S. A. T. C.	1	Perry
Lauderdale, Gladys	Sec.	1-2	Avery

NAME	COURSE		ADDRESS
Laauderdale, Glenn	Sec.	1-2	Stillwater
Lauderdale, Grace	Sec.	1-2	Stillwater
Lauaghlin, Mary	H. E., Sr.	1-2	Stillwater
Lawellin, Rosa A.	Bus.	1-2	Goltry
Lawellin, W. D.	Bus.	1	Goltry
Lawhorn, Engle	S. A. T. C.	1	
Lemmon, Haven	C. and M., Fr., S. A. T. C.	1-2	Minco
Leninger, Oliver W.	Trades	1	Navina
Lewis, Alta	Sec.	SS-1	Ponca City
Lewis, John	Trades	1	Ponca City
Lewis, May	Sec.	1-2	Ponca City
Lewis, Clyde	Bus.	1-2	Agra
Lewis, Inez	H. E., Sr.	1-2	Ponca City
Liebhart, Marion C.	Agri., Soph.	1-2	Drummond
Link, William	Trades	1-2	Okeene
Linville, Ethel	Bus.	SS-1-2	Stillwater
Lively, Hubert	Sec.	1-2	Stillwater
Livergood, Alta	Bus.	SS-1	Newkirk
Locks, Harry	Uncl.	1	Wakita
Locks, Ira A.	S. A. T. C.	1	Shamrock, Tex.
Lockhart, Taylor	Sec.	1	Weleetka
Lonergan, John L.	Sec.	1-2	Pawnee
Long, Wm. H.	Engr., Fr., S. A. T. C.	1-2	Wakita
Longfellow, Marion	Sec.	1	Hobart
Loosen, Ernest M.	C. and M., Fr.	1-2	Okarche
Loosen, Isabel	Sec.	1-2	Okarche
Loosen, Max H.	Sec.	1-2	Okarche
Lovelady, Luther	Uncl:	1	Roff
Lowe, Alvin	Trades	1	Comanche
Loy, Miss R. B.	Sec.	1-2	Sparks
Ludwick, Russell	Agri., Fr., S. A. T. C.	1-2	Keefeton
Luke, Frances	H. E., Fr.	1-2	Ardmore
Luton, Ben Milam	Engr., Fr.	1	Lindsay
Lyon, Mrs. Johny H.	Edu., Fr.	1-2	Reed
Lyon, L. J.	S. A. T. C.	1	Newkirk
McAdams, Thos. P.	Agri., Fr.	1	Broken Arrow
McArthur, Ruby	Bus.	1-2	Stillwater
McBride, Elmer L.	Edu., Jr.	-2	Stillwater
McBride, Thelma	H. E., Fr.	SS-1	Ardmore
McClain, Oila	Trades	1	Elk City
McClintock, Alva	V. A.	1	Bartlesville
McClung, Robert Lee	Sec.	1-2	Davidson
McClung, Leland	Bus.	1	Sapulpa
McConkey, Russell	Uncl.	1	Lawton
McCool, Daisy	Uncl.	1	Stillwater
McCoy, Vance	Sec.	-2	Cowlington
McCrakin, Jim	Trades	1	Ames
McCroskey, Edith	Bus.	SS-1-2	Stillwater
McCroskey, Francenah	C. and M., Soph.	1-2	Stillwater
McCullough, Lloyd E.	Engr., Fr., S. A. T. C.	1-2	Collinsville
McCurley, Alvin D.	C. and M., Fr., S. A. T. C.	1-2	Cordell
McDonald, Leon J.	Agri., Fr.	-2	Lindsay
McDonald, Tillman	Engr., Fr.	1-2	Walter
McGee, Iris	H. E., Jr.	1-2	Waynoka
McGowan, Wm. Leroy	S. A. T. C.	1	Holdenville
McKay, Earl S.	S. A. T. C.	1	Hydro
McKay, Habzel Verne	H. E., Fr.	1-2	Lawton
McKee, Cora	Bus.	1-2	Oklahoma City
McKee, Loren	Sec.	1-2	Cooperton
McKemie, Glen	Agri., Soph., S. A. T. C.	1-2	Coalgate
McKinnon, John J.	A. E., Jr., S. A. T. C.	1-2	Eddy
McKnight, Emmett	Engr., Fr., S. A. T. C,	1-2	Agra
McKnight, Goldie	Edu., Jr.	1	Agra
McLain, Lewis	Bus.	1-2	Cooperton
McLain, Lloyd W.	S. A. T. C.	1	Cooperton
McLaughlin, Geo.	Sec.	1-2	Galbis, Cuba
McLaury, Sheldon	Trades	1	Cushing
McMillan, M. B.	C. and M., Soph., S. A. T. C.	1-2	Oklahoma City
McMurtry, Jett	S. A. T. C.	1	Shamrock, Tex.
McNutt, Beryl	S. A. T. C.	1	Newkirk
McQuown, Lattie	Sec.	SS -2	Stillwater

NAME	COURSE		ADDRESS
McVay, Pearl	Sec.	1	Orlando
McWethy, Mead	Sec.	1-2	Coyle
McWhorter, Nettie	Sec.	SS-1-2	Soper
McWhorter, Walter W.	S. A. T. C.	1	Newkirk
Mack, H. W.	Trades	1	Salt Fork
Madigan, Gladys	C. and M., Sr.	1-2	Durant
Mahaffey, Katie Lee	H. E., Fr.	1-2	Stillwater
Main, Francis E.	E. E., Soph.	1-2	Stillwater
Main, Lois	Sec.	1-2	Stillwater
Maloy, Margaret Lu	H. E., Fr.	1	Mangum
Maness, Velma	Sec.	1-2	Cooperton
Maness, Vern L.	Sec.	1-2	Cooperton
Mankin, Jas. E.	Bus.	1	Holdenville
Mann, R. W.	S. A. T. C.	1	Checotah
Mansell, Laura	Sec.	1-2	Fletcher
Marica, Glenn	S. A. T. C.	1	Stillwater
Markland, Waldo C.	C. and M., Fr.	SS- -2	Stillwater
Markley, Theo.	S. A. T. C.	1	Wagoner
Marks, George	Bus.	1-2	Holdenville
Marks, Lee	Trades	1	Chandler
Markwell, Rachel	H. E., Sr.	SS-1-2	Stillwater
Markwell, Earl D.	Agri., Sr.	-2	Stillwater
Marshall, Joseph	S. A. T. C.	1	Goodnight
Martin, Archie O.	Edu., Sr.	-2	Watonga
Martin, Esther	H. E., Sr.	1-2	Stillwater
Martin, Mrs. Florence	Bus.	1-2	Stillwater
Martin, Frank	Edu., Jr.	-2	Sallisaw
Martin, Joe	Sec.	1	Claremore
Martin, Ola Frances	Bus.	-2	Hominy
Martin, P. L.	Sec.	1-2	Watonga
Martin, Mrs. W. H.	Uncl.	1	Stillwater
Mason, Clark	Sec.	1	Claremore
Massingale, Sam	Sec.	1	Leedey
Matkin, Helen	Uncl.	1-2	Stillwater
Matthews, Roy C.	S. A. T. C.	1	Mulhall
Maxwell, Clifford	Sec.	-2	Cowlington
Means, J. Emory	S. and L., Fr., S. A. T. C.	1-2	Stillwater
Means, Maude	Sec.	1	Purcell
Means, R. Vernon	Engr., Fr., S. A. T. C.	1-2	Stillwater
Means, William	Sec.	1	Holdenville
Meek, Mrs. Laura	Uncl.	1	Stillwater
Magee, Vernon E.	V. A.	-2	Chandler
Melton, Mark	Trades	1-2	Ames
Meredith, J. Byron	S. A. T. C.	1	Tulsa
Merrifield, Martha	H. E., Soph.	1-2	Enid
Merrill, Roy R.	C. and M., Fr., S. A. T. C.	1-2	Stillwater
Merritt, Hazel Dell	H. E., Soph.	1-2	Medford
Middleton, W. R.	Bus.	1	Wainwright
Miller, Iva	Bus.	SS-1-2	Stillwater
Miller, Arthur	Uncl.	1	Helena
Miller, Josephine	Bus.	1-2	Oilton
Miller, Leta Mae	Bus.	1	Hallett
Miller, Gladys	Sec.	1-2	Perkins
Mills, Caroline	Edu., Fr.	1-2	Walters
Minter, A. B.	S. A. T. C.	1	Madill
Mitchell, D. S.	Sec.	1	Rosedale
Mitchell, George	Trades	1	Rosedale
Mitchell, Mildred	Bus.	1-2	Glencoe
Mitchell, Gladys	Bus.	1-2	Glencoe
Moelling, Henry	S. A. T. C.	1	Lucien
Molacek, Thos.	C. and M., Fr., S. A. T. C.	1-2	Oklahoma City
Monroe, Rufus	Sec.	1	Vinson
Montgomery, Alonzo	Trades	-2	Castle
Montgomery, Berta	Bus.	1-2	Castle
Montgomery, Vina	Bus.	1-2	Castle
Moody, Cecil	S. A. T. C.	1	Coalgate
Mooney, Virgie Lee	Sec.	1-2	Ripley
Moore, Glenn O.	S. A. T. C.	1	Cleveland
Moore, Marie	H. E., Fr.	-2	Dewey
Moore, Nellie	Bus.	1	Stillwater
Moore, Winifred	Bus.	1-2	Stillwater
Moore, Vera	Bus.	SS-1	Stillwater

NAME	COURSE		ADDRESS
Moreland, Flora	Bus.	1	Austin, Tex.
Moreland, Mary	Bus.	SS-1	Austin, Tex.
Morey, Gordan A	Sec.	1-2	May
Morey, Donald	V. A.	1-2	Stillwater
Morgan, Wm. A	Agri., Fr	-2	Stillwater
Morrell, Chas	Bus.	1-2	Hominy
Morris, Ben	S. A. T. C	1	Walter
Morris, Erma	Bus.	-2	Stillwater
Morris, Glenn W	Agri., Fr., S. A. T. C.	1-2	Alva
Morris, Pauline R	Edu., Soph	1-2	Stillwater
Morris, Samuel E	Sec.	1-2	Opal
Morrison, Austin	Bus.	1	Ryan
Morrison, E. L	S. A. T. C	1	Wetumka
Morse, Wm. Osborne	Engr., Fr., S. A. T. C.	1-2	Fort Worth, Tex.
Moseley, Josie	H. E., Soph	SS-1-2	Stillwater
Moseley, Mossie	H. E., Sr	1-2	Stillwater
Moser, Roy	S. A. T. C	1	Yale
Moslander, Arnold	Trades	1-2	Holdenville
Moslander, Proctor R	Bus.	1-2	Holdenville
Mounts, Marvin M	Agri., Fr	1	Red Rock
Mulvey, Michael	Sec.	-2	Yukon
Munyon, Clyde R	S. and L., Fr	1	Morrison
Murphy, Edna Grace	Bus.	SS-1-2	Stillwater
Murphy, Henry F	S. A. T. C	1	Glencoe
Murray, James	E. E., Sr., S. A. T. C.	1-2	Manitou
Murray, M. B	Sec.	1-2	Tishomingo
Murray, Vernon	S. A. T. C	1	Hunter
Musgraves, Eunice	H. E., Fr	1-2	Stillwater
Musgraves, Leatha M	H. E., Jr	1-2	Stillwater
Musgraves, Ruth	H. E., Fr	1-2	Stillwater
Myers, Geo. M	E. E., Jr	-2	Shawnee
Myers, Harley	S. A. T. C	1	Helena
Myers, Ruth	H. E., Sr	SS-1-2	Oklahoma City
Nash, Orman	Agri., Soph., S. A. T. C	1-2	Paden
Nault, Joe	Sec.	-2	Okeene
Neal, Will	S. A. T. C	1	Elmer
Neaves, Eunice	H. E., Soph	1-2	Tryon
Nelms, Mrs. Vada	Bus.	SS-1	Stillwater
Nelson, Bendetta	Sec.	SS-1-2	Stillwater
Nelson, Geo. J	S. A. T. C	1	Altus
Nelson, Jefferson Chas	Trades	1	Mutual
Nelson, I. H	Agri., Soph., S. A. T. C	SS-1-2	Stillwater
Nelson, Okey	Bus.	SS-1-2	Stillwater
Nelson, Vernie	Trades	1	Stillwater
Nelson, Edwin	Sec.	1	Ames
Nelson, Ray	V. A.	1	Ames
Neumayer, Eunice	H. E., Fr	1-2	Medford
Newman, Jess	Trades	1	Dixie
Newton, Pearl	Sec.	SS-1-2	Stillwater
Nixon, Gilbert	Bus.	1-2	Sparks
Nixon, Glenn D	Trades	1	Fort Cobb
Norman, J. Sims	S. A. T. C	1	Trenton, Tex.
Nowlin, Jack S	S. A. T. C	1	Sulphur
O'Bryant, Flossie	Bus.	1-2	Stillwater
O'Connor, Bernice	Sec.	1-2	Sparks
Odor, E. Hesper	H. E., Sr	1-2	Arcadia
Offield, John F	Sec.	1-2	Oklahoma City
Olden, Sarah E	Uncl.	1	Stillwater
Oldham, Lola	H. E., Sr	SS-1-2	Stillwater
Oldham, Roy	Sec.	1-2	Stillwater
Oliver, Cecil D	Sec.	1-2	Springer
Olmstead, Mrs. Audrey	H. E., Sr	1-2	Stillwater
Olmstead, Nora	H. E., Sr	SS-1-2	Ripley
Oltmanns, Barbara	S. and L., Fr	1-2	Gotebo
Organ, Ben	Sec.	1-2	Big Heart
Orner, Zephyr	Sec.	SS-1-2	Stillwater
Orr, Robert Lawrence	S. A. T. C	1	Eufaula
Osborn, Eugene D	S. A. T. C	1	Thomas
Outhier, R. C	S. A. T. C	1	Okeene
Outhier, Virgil	H. E., Sr	SS-1-2	Homestead
Outhier, Francis M	Trades	1	Homestead
Overman, Ollie	Bus.	1-2	Stillwater
Overman, Rosalie	Bus.	SS-1	Stillwater

NAME	COURSE		ADDRESS
Overholt, Thelma	Bus.	-2	Stillwater
Owsley, Byrla	Bus.	1-2	Stillwater
Oxley, Winifred	Edu., Fr.	1-2	Cleo Springs
Oxley, K. M.	Sec.	1-2	Cleo Springs
Pareno, Mike	Trades	1-2	El Reno
Park, Henry Clay	Engr., Fr., S. A. T. C.	1-2	Stillwater
Parker, Grace	Sec.	1-2	Woodford
Parker, Josephine	Sec.	1-2	Stillwater
Parker, Martha	H. E., Fr.	1-2	Stillwater
Parker, Orville H.	Bus.	1-2	Stillwater
Parker, Pauline	Sec.	1-2	Stillwater
Parker, Rachel	H. E., Fr.	1-2	Stillwater
Parman, Vera	H. E., Fr.	1-2	Stillwater
Patchett, Robert	Trades	1-2	Lenapah
Patterson, Gladys	S. and L., Sr.	SS-1-2	Walters
Patton, Florence	Sec.	1-2	Stillwater
Patton, Willie	Sec.	1-2	Stillwater
Payne, Nora	Bus.	1-2	Cushing
Payne, Winnie	Bus.	1-2	Cushing
Pearson, Paul	Sec.	1	Altus
Pecha, Louis J.	Bus.	1-2	Goltry
Peeler, Roy	S. A. T. C.	1	Guthrie
Penny, James H.	Agri., Fr.	1	Glencoe
Percival, Kathryn	H. E., Sr.	1-2	Stillwater
Perry, June Irene	Bus.	1-2	Stuart
Perryman, Ina L.	Bus.	SS-1	Stillwater
Perryman, Levi	V. A., S. A. T. C.	1-2	Frederick
Petty, Blanche	Agri., Fr.	1-2	Oklahoma City
Petty, Julia	Edu., Fr.	1-2	Oklahoma City
Pickard, Frank	S. A. T. C.	1	Reed
Pickens, Boyd	Sec.	1	Boswell
Pickerel, Evert	Engr., Fr.	1	Enid
Pickett, Oliver	Sec.	1	Chandler
Piel, Ernest C.	S. A. T. C.	1	Perry
*Pierce, George	S. A. T. C.	1	Stillwater
Pierson, J. W.	S. A. T. C.	1	Pond Creek
Pierson, Roy E.	Sec.	1	Pond Creek
Pierson, Helen	Sec.	1-2	Pond Creek
Pitzer, Mary	Sec.	SS-1-2	Stillwater
Pitzer, Sydnie De	Sec.	1-2	Stillwater
Pippin, Haskell B.	Bus.	1	Lawton
Platt, Elizabeth	Bus.	1	Stillwater
Pock, George	V. E.	1	Ripley
Porter, Mrs. Chas.	Bus.	1	Stillwater
Porter, F. Stockton	Sec.	1	Leonard
Porter, Will	C. and M., Fr.	1	Shamrock, Tex.
Porter, Hulda	H. E., Jr.	1-2	Stillwater
Powell, Edna	Bus.	SS-1-2	Stillwater
Powell, Sidney	Trades	-2	Durant
Powers, Eugene B.	Sec.	1-2	Stillwater
Powers, Grace	H. E., Soph.	1	Mangum
Powers, Leila	Sec.	1-2	Stillwater
Pratt, Roy	C. and M., Fr., S. A. T. C.	SS-1-2	Enid
Preston, Gladys	Bus.	1	Goltry
Prewett, Clifton	Sec.	1-2	Talihina
Price, Grace	Sec.	1	Glencoe
Pugh, Marcus P.	Bus.	1-2	Ardmore
Pullen, R. E.	S. A. T. C.	1	Shamrock, Tex.
Pulliam, Gordan	C. and M., Fr.	1-2	Cushing
Purviance, Nell	Sec.	1-2	Guthrie
Purviance, Maude	Sec.	-2	Guthrie
Raiford, Alice	Sec.	1-2	Stillwater
Raines, Elsie Marie	Bus.	SS-1	Perkins
Raines, Leo E.	S. A. T. C.	1	Wagoner
Raines, Buena Vista	Bus.	1-2	Wagoner
Ramey, Blanche	Bus.	1-2	Stillwater
Ramey, Marie	Bus.	SS-1-2	Stillwater
Ramsey, Eugene	Sec.	1-2	Cushing
Randolph, Robert	Agri., Fr., S. A. T. C.	1-2	Stillwater
Randolph, Wm. E.	Trades	1	Stillwater
Rankin, Wm. Price	Sec.	1-2	Gage
Records, Geneva	V. H. E.	1	Okeene

*Deceased.

NAME	COURSE	ADDRESS
Ray, Wilber	C. and M., Fr., S. A. T. C.	1-2 Stillwater
Redmond, Effie	Sec.	1-2 Cheyenne
Redmond, Cecil	Sec.	1-2 Cheyenne
Reed, G. Nathan	S. and L., Fr.	1-2 Stillwater
Reeder, F. Dewey	Agri., Fr., S. A. T. C.	1-2 Bison
Reeder, H. T.	Sec.	1 Bison
Rese, Chas. E.	Trades	1-2 Ponca City
Reichman, Curtis	Sec.	1 Stillwater
Reichman, Ida	S. and L., Jr.	1-2 Stillwater
Reid, Fay E.	Bus.	1-2 Stillwater
Ress, Curtis	S. A. T. C.	1 Wewoka
Rey, Walter A.	Sec.	-2 Oklahoma City
Reynolds, Gladys	Bus.	1 Elk City
Reynolds, Leonard	Bus.	1-2 Elk City
Reynolds, Clarence A.	Uncl.	1 Pond Creek
Rhoades, Philip J.	S. A. T. C.	1 Davidson
Rice, Lewis W.	Sec.	1-2 Coyle
Richards, Glen	V. E.	1-2 Stillwater
Richardson, Meck L.	S. A. T. C.	1 Cordell
Riddle, Cecil C.	Uncl.	1 Ada
Riley, Jessie	Sec.	SS -2 Caney, Kans.
Rinehart, Mabelle	H. E., Fr.	1-2 Ramona
Rinehart, Maude E.	H. E., Fr.	1-2 Ramona
Rinehart, Leroy	Sec.	1 Ramona
Roach, James F.	S. A. T. C.	1 Childress, Tex.
Robberson, Allen Price	Engr., Fr.	1-2 Ringling
Roberts, D. M.	Edu., Sr.	SS-1-2 Stillwater
Roberts, Ed	Sec.	1-2 McLoud
Roberts, Maner E.	Trades	1 Porter
Robertson, Mrs. J. D.	Bus.	-2 Stillwater
Robertson, Lola	Bus.	SS-1-2 Stillwater
Robinson, Helen	Sec.	SS-1-2 Hominy
Robinson, Maurice	Sec.	1-2 Hominy
Robinson, Eugene	S. A. T. C.	1 Stillwater
Rockett, Ross Lee	Trades	1 Wilburton
Roddy, Earl Thomas	S. A. T. C.	1 Fort Cobb
Rodgers, Anna	Sec.	1-2 Glencoe
Rodocker, Eugene	Trades	1 Durant
Roger, Glenn	S. A. T. C.	1 Snyder
Rogers, Tipton	S. A. T. C.	1 Grove
Rogers, Wm. S.	S. A. T. C.	1 Stillwater
Rolette, Harold	Sec.	1-2 Stillwater
Rolette, J. J.	C. and M., Fr.	1-2 Stillwater
Rolette, Mrs. Lucina	Uncl.	-2 Stillwater
Roof, Blanche L.	Sec.	1-2 Tryon
Roope, Margueriet Fern	H. E., Soph.	1-2 Chandler
Roope, F. Ruth	H. E., Sr.	1-2 Chandler
Rothhammer, Claude	Uncl.	1 Tulsa
Rouse, Edna	Sec.	1-2 Pleasant Valley
Rouse, Elva	Sec.	1-2 Pleasant Valley
Rowland, Rex	Trades	1 Piedmont
Rowley, S. E., Jr.	Sec.	1-2 Piedmont
Roysdon, Geo. W.	Trades	1 Stillwater
Rumback, Callie	Bus.	1 Stillwater
Rumback, Pearl	Bus.	1 Stillwater
Rumback, Edna	Bus.	1 Stillwater
Rush, Harrie E.	Engr., Fr.	1 Snyder
Rusher, Harold	Engr., Fr., S. A. T. C.	1-2 Yale
Rust, Fern	Bus.	-2 Stillwater
Ryan, Dana	Sec., S. A. T. C.	1-2 Maramec
Sadlo, Eddie	E. E., Soph., S. A. T. C.	1-2 Prague
Saint, Leonard R.	S. A. T. C.	1 Perkins
Sanborn, Elizabeth	Uncl.	1 Stillwater
Sanford, Lawrence	Sec.	-2 Skedee
Sanford, Paul G.	S. A. T. C.	1 Weleetka
Schacher, Sadie	Sec.	SS-1-2 Stillwater
Schatz, Ted	Bus.	-2 Stillwater
Schooler, Josie	Sec.	SS-1-2 Stillwater
Schutten, Floyd	S. A. T. C.	1 Dale
Schwenining, Geo. H.	Sec.	1 Antlers
Schlehuber, Frank	S. A. T. C.	1 Morrison
Scivally, L. F.	C. and M., Fr.	1 Ardmore
Scott, Christian B.	Edu., Soph.	1-2 Meno

NAME	COURSE	ADDRESS
Scott, Forrest	Sec.	1-2 Meno
Scott, Nellie	Sec.	1-2 Meno
Scott, Frank L.	S. A. T. C.	1 Jackson, Miss.
Scott, Theresa May	H. E., Soph.	1-2 Sapulpa
Scroggs, Myrtle Ada	Edu., Sr.	SS-1-2 Stillwater
Scroggs, Wm. A.	C. and M., Fr.	-2 Stillwater
Seaboch, Clarence	Agri., Fr.	1-2 Blackwell
Seaney, George W.	V. A.	1-2 Erick
See, Iva Alice	H. E., Fr.	1-2 Tonkawa
Sewell, F. Edward	Uncl.	1 Krum, Tex.
Sewell, R. J.	Trades	1 Stillwater
Shanklin, Roscoe M.	C. and M., Fr., S. A. T. C.	1-2 Medford
Shannon, Raymond D.	C. and M., Soph., S. A. T. C.	1-2 Perkins
Shaw, Dollie	Sec.	1-2 Morrison
Shaw, May	Sec.	1-2 Morrison
Sheets, Granville	Sec.	-2 Tonkawa
Sheets, Marion	Sec.	1-2 Tonkawa
Shepard, Edna	Sec.	1-2 Stillwater
Sherman, Clyde	Sec.	1-2 Mulhall
Shockley, Wayne	S. A. T. C.	1 Enid
Shreeves, Shirley L.	Uncl.	1 Bartlesville
Shryock, Howard	Sec.	1 Sharon
Sibley, Robert	C. and M., Fr., S. A. T. C.	1-2 Okemah
Sieglinger, Leona	Edu., Sr.	1-2 Stillwater
Siever, W. V.	V. A.	-2 Mounds
Simpson, Harry	S. A. T. C.	1 Sparks
Skaer, Opal	H. E., Soph.	SS-1-2 Augusta, Kans.
Skaer, Pauline	Sec.	1-2 Augusta, Kans.
Skidgel, Lloyd	Sec.	1 Glencoe
Skinner, E. Ray	Edu., Sr.	-2 Stillwater
Slayton, J. S.	Uncl.	1 Oklahoma City
Slief, A. Wm.	Trades	1-2 Cheyenne
Small, Edward H.	Agri., Fr.	1 Shamrock, Tex.
Smart, Claude	Sec.	-2 Crowder
Smart, G. H.	Uncl.	1 Helena
Smart, Harold	Engr., Fr., S. A. T. C.	1-2 Helena
Smelser, Carl A.	Sec.	1-2 Cooperton
Smith, Basil R.	Sec.	1-2 Avery
Smith, Bert	Trades	1-2 Randlett
Smith, Beulah	Bus.	1 Dawson
Smith, Chas. M.	Uncl.	1 Apache
Smith, Carl	S. A. T. C.	1-2 Stillwater
Smith, Earl	V. A.	1 Cleora
Smith, Harry E.	S. A. T. C.	1 Stillwater
Smith, Homer D.	S. A. T. C.	1 Drumright
Smith, Homer C.	Sec.	-2 Bennington
Smith, Icy	Bus.	1-2 Grandfield
Smith, J. M., Jr.	Sec., S. A. T. C.	1-2 Grandfield
Smith, J. S.	S. A. T. C.	1 Oklahoma City
Smith, Laura	Bus.	-2 Sapulpa
Smith, Lela	Sec.	1-2 Grandfield
Smith, Luella	Bus.	1-2 Eldorado
Smith, Mildred	Sec.	SS-1-2 Stillwater
Smith, Morris	Trades	1-2 Randlett
Smith, N. J.	Sec.	1 Skedee
Smith, Pearl	Bus.	1-2 Stillwater
Smith, Porter	Trades	1 Fort Towson
Smith, W. C.	Agri., Sr.	-2 Omega
Smith, Vada	Bus.	1-2 Cleora
Smith, Mrs. Wells	Uncl.	SS-1-2 Stillwater
Sneary, Gladys	C. and M., Fr.	1-2 Driftwood
Sneary, Grace	Edu., Soph.	1-2 Driftwood
Snedaker, Frank	S. A. T. C.	1 Tallahassee
Snider, Beulah	Sec.	1-2 Lindsay
Snyder, Cora	Sec.	1-2 Salt Fork
Snyder, Laura	S. and L., Jr.	1-2 Salt Fork
Snyder, Stella	Sec.	1 Salt Fork
Snyder, Walter	Trades	-2 Chelsea
Soule, Clayton E.	E. E., Soph.	1 Nowata
Soule, Field	Agri., Fr., S. A. T. C.	1-2 Beggs
Souter, Netabel	S. and L., Fr.	1-2 Magnolia, Ark.
Spangler, Mace	Edu., Jr.	1 Oklahoma City
Spaulding, Jas. S.	Uncl.	-2 Muskogee

NAME	COURSE		ADDRESS
Spencer, Lillie H	H. E., Fr.	SS-1-2	Stillwater
Spencer, Len	S. A. T. C.	1	Yale
Spencer, Lynn L.	S. A. T. C.	1	Walters
Spencer, Mary	Sec.	1-2	America
Spicer, Verda	Sec.	1-2	Stillwater
Sprague, Russell A.	Trades	1	Lawton
Springer, Montana	Bus.	1-2	Stillwater
Springer, George	Sec.	1-2	Spur, Tex.
Staedelin, Maude	H. E., Sr.	1-2	Medford
Stafford, Fred	A. E., Soph.	1-2	Pawnee
Stafford, Jo D.	Agri., Soph., S. A. T. C.	1-2	Stillwater
Stansberry, Hubert	Sec.	1	Mazie
Stanfield, C. C.	Trades	1	Fleetwood
Stark, Hazel	Bus.	SS-1-2	Stillwater
Stark, L. B.	C. and M., Jr., S. A. T. C.	1-2	Stillwater
Staten, Bertha C.	Sec.	1-2	Agra
Steele, J. B.	Sec.	1-2	Whiteagle
Steele, Jeanne	Edu., Fr.	1-2	Whiteagle
Steele, M. G.	Sec., S. A. T. C.	1-2	Whiteagle
Steele, Verna	Sec.	1-2	Whiteagle
Stephens, Clyde	Trades	1	Enid
Sterne, Tom C.	S. A. T. C.	1	Muskogee
Stevens, Carl A.	M. E., Soph., S. A. T. C.	1-2	Quapaw
Stevens, Paul	Sec.	1	Quapaw
Stevens, Nellie	Bus.	1-2	Glenwood, Ind.
Stewart, Myrtle Nina	Sec.	1-2	Ripley
Stewart, Ray	S. A. T. C.	1	Lawton
Stewart, Roby F.	Trades	1-2	Wichita Falls, Tex.
Stewart, John F.	Engr., Fr., S. A. T. C.	1-2	Minco
Stice, Claude	Trades	1	Markham
Stiles, Mrs. Lottie	Edu., Soph.	SS-1-2	Stillwater
Stiner, Reba	Bus.	1	Stillwater
Stockton, Leo D.	Sec.	1	Perkins
Stockton, Mrs. T. S.	Uncl.	1-2	Stillwater
Stokesberry, L. S.	Agri., Sr.	-2	Stillwater
Stokesberry, Maude	Sec.	SS-1-2	Stillwater
Stokesberry, Ruth	Bus.	SS-1-2	Stillwater
Stone, Blair H.	M. E., Soph., S. A. T. C.	1-2	El Reno
Stone, Jennie Leslie	Uncl.	1	Stillwater
Stone, Marie	H. E. Fr.	-2	Clinton
Stuotz, Oscar	Agri., Fr.	-2	Muskogee
Stout, Warren	Sec.	1-2	Douglas
Straughen, Florence	H. E., Fr.	1-2	Chandler
Street, Harold L.	S. A. T. C.	1	Woodward
Stubblefield, E. E.	C. E., Soph., S. A. T. C.	1-2	Pawhuska
Sturgis, Alden	Ch. E., Fr., S. A. T. C.	1-2	Guthrie
Sturgis, Nelson H.	Sec.	1-2	Guthrie
Stuteville, Orien	Sec.	1-2	Alfalfa
Sublett, Taylor	S. A. T. C.	1	Oklahoma City
Sugg, Herbert	Agri., Fr.	1-2	Lone Wolf
Sullins, Raymond	Bus.	-2	Red Rock
Sullivan, Claude S.	Agri., Soph.	1	Okmulgee
Sullivan, Ed Lane	Sec.	1	Yukon
Sumpter, Gladys Harold	Bus.	1	Stillwater
Sutton, Karl S.	S. A. T. C.	1	Fletcher
Swanson, Lewis	Bus.	1-2	Fairfax
Swanson, J. L.	Bus.	1-2	Roosevelt
Swart, Florence	Sec.	1-2	Stillwater
Swartz, Edgar	Bus.	1-2	Bristow
Sweeney, Sadie	Edu., Fr.	SS-1-2	Stillwater
Swim, Elmer	Sec.	1-2	Stillwater
Swim, L. L.	C. E., Jr.	-2	Stillwater
Swim, Paul M.	C. E., Soph.	1-2	Stillwater
Swinney, Robert L.	Trades	1-2	Cement
Symns, E. W.	Agri., Fr.	-2	Ingersol
Tabor, Mary	Sec.	1	Stillwater
Tabor, Paul S.	Engr., Fr., S. A. T. C.	1-2	Stillwater
Tacker, Robert	Sec.	1	Vernon, Tex.
Tankersley, Arlyn	Sec.	1-2	Stillwater

NAME	COURSE		ADDRESS
Tappe, Erick	Sec.	1	Perry
Tate, Marion	Trades	-2	Orlando
Taylor, Alma	Sec.	SS -2	Stillwater
Taylor, Clerence P.	Agri., Fr.	-2	Stillwater
Taylor, Fred B.	S. A. T. C.	1	Wichita
Taylor, Lilah	Bus.	SS -2	Stillwater
Terrill, James	Trades	1-2	Stillwater
Terrill, Chas. W.	Uncl.	1	Stillwater
Terry, Earl R.	S. A. T. C.	1	Elk City
Terry, Vance	Uncl.	1	Hobart
Tesone, Silver	A. E., Soph., S. A. T. C.	1-2	Wilburton
Tharp, L. Merle	S. A. T. C.	1	Yale
Tharp, Thelma	H. E., Fr.	1	Yale
Thatcher, Marie	Bus.	1	Stillwater
Thatcher, Anna	Bus.	1	Stillwater
Thomas, Edna	Sec.	1-2	Stillwater
Thomas, Frank D.	C. and M., Fr.	1-2	Whitewright, Tex.
Thomas, Frank S.	Sec.	1-2	Sparks
Thomas, G. M.	Trades	-2	Prague
Thomas, Harley O.	Agri., Jr.	-2	Tampico, Ill.
Thomas, Harry A.	Sec.	1-2	Denison, Tex.
Thomas, Kate	Uncl.	-2	Whitewright, Tex.
Thomas, Pearl	Bus.	SS-1-2	Kelleyville
Thomas, Chester C.	Sec.	1	Tonkawa
Thomas, A. E.	Bus.	1	Holdenville
Thompson, Cecil	Sec.	1-2	Shamrock
Thompson, Chas. H.	V. E.	1	Komalty
Thompson, Guy	Sec.	1	Marlow
Thompson, Marguerite	Edu., Fr.	1-2	Watonga
Thompson, Owen	Sec.	1	Ryan
Thornton, Bill	S. and L., Fr.	1-2	Cordell
Thorpe, Wm. D.	Trades, S. A. T. C.	1-2	Selma, Ohio
Tierney, Edward J.	Trades	1	Blackwell
Tillotson, J. A.	Sec.	1	Nowata
Tilton, R. T.	Agri., Jr., S. A. T. C.	1-2	Nardin
Tracy, Forest R.	Uncl.	1	Tulsa
Trautmann, Bertha	Sec.	1-2	Stillwater
Travers, Aileen	Uncl.	-2	Stillwater
Trekell, L. W.	Agri., Jr., S. A. T. C.	1-2	Hunter
Tripp, Ernest J.	Sec.	1-2	Cleora
Tripp, Thomas A.	Sec.	1-2	Afton
Trudeau, Clarice	S. and L., Fr.	1-2	Telluride, Colo.
Truelove, Coy	Trades	1-2	Dustin
Trummer, Frances B.	Bus.	1-2	Hastings
Tullis, Edith L.	Bus.	SS-1	Stillwater
Tulley, Lawrence	S. A. T. C.	1	Shawnee
Turk, Irving	S. A. T. C.	1	Oklahoma City
Turner, Fred G.	Sec.	1	Kandrick
Turner, Mildred	H. E., Soph.	1-2	Pawnee
Tyler, Mary	Bus.	1-2	Mehan
Tyler, Dola	Sec., S. A. T. C.	1-2	Mehan
Tyner, Bessie	Bus.	1	Wichita, Kans.
Tyner, Hazel	Uncl.	SS -2	Wichita, Kans.
Tyrrell, B. K.	Bus.	1	Wainwright
Ury, George	Trades	1	Sulphur
Usher, Glenn	Sec.	1	Doby Springs
Utter, Mollie	Sec.	SS-1-2	Perkins
Van Arsdale, Arthur	Uncl.	1	Edmond
Van Court, Eunice	Bus.	-2	Stillwater
Vance, Leland	Trades	1	Oklahoma City
Vandeventer, Verlon	S. A. T. C.	1	Arnett
Van Eaton, Frank	Sec.	1	Fort Cobb
Varnum, J. Emerson	C. and M., Soph.	1	Shawnee
Varnum, Robert D.	Agri., Fr., S. A. T. C.	1-2	Shawnee
Vasey, H. Worth	Trades	1	El Reno
Vasser, Paul U.	Sec.	1	Tryon
Venable, Floyd D.	S. A. T. C.	1	Kiel
Venables, Perry N.	Bus., S. A. T. C.	1-2	Thomas
Vermillion, Carrie	H. E., Fr.	SS-1	Perry
Vermillion, Edward	S. A. T. C.	1	Wagoner
Vinvent, Clausine	Sec.	-2	Stillwater
Vincent, Mrs. Geo.	Uncl.	-2	Stillwater
Vincent, Robert	Sec.	1	Claremore

NAME	COURSE		ADDRESS
Vogel, Nira	H. E., Soph	1-2	Shawnee
Vogle, Hugh	Sec.	1	Snyder
Von Hagen, Verda	Sec.	1-2	Stillwater
Voyles, Carl	C. and M., Fr	-2	Drumright
*Wagner, Earlie	Sec.	1	Orlando
Wainscott, L. B.	S. A. T. C.	1	Higgins, Tex.
Walcott, Clint	C. E., Jr., S. A. T. C.	1-2	Olustee
Walker, Allen	S. A. T. C.	1	Ryan
Walker, Harold Theo.	S. A. T. C.	1	Stillwater
Walker, Floy	Bus.	SS-1-2	Stillwater
Walker, Mila Horton	Bus.	1	Stillwater
Walker, N. Morgan	M. E., Sr.	1-2	Ryan
Walker, Thomas Clifford	Trades	1-2	Spiro
Walker, Edith	H. E., Fr.	1-2	Ryan
Wall, Robert N.	Agri., Fr.	1-2	Agra
Wallace, Gerald A.	Agri., Jr.	1	Stillwater
Wallace, John C.	Sec.	1-2	Oklahoma City
Wallace, Wm. A.	S. A. T. C.	1	Eufaula
Walls, Goldia	Bus.	SS-1-2	Skedee
Walsh, Claude L.	Sec.	1-2	Los Angeles, Calif.
Ward, Elvin B.	Sec.	1-2	Chester
Ward, Genevie	Uncl.	SS-1-2	Stillwater
Ward, Ida	Sec.	1-2	Chester
Ware, Marie	Bus.	1-2	Stillwater
Ware, Veta	Bus.	-2	Stillwater
Warren, Vera	H. E., Fr.	1-2	Adair
Warrington, R. Fred	Trades	1	Miami
Washcheck, Charles	Trades	1	Piedmont
Watkins, Albert James	S. A. T. C.	1	Guthrie
Watkins, Leone	Edu., Jr.	1-2	Helena
Watson, Mrs. Glenn	Uncl.	-2	Stillwater
Watson, Elbertine	Sec.	1	Mutual
Weathers, Nancy	Bus.	SS-1	Stillwater
Weaver, Walter	C. and M., Fr., S. A. T. C.	1-2	Stillwater
Webb, Guy P.	S. A. T. C.	1	Wakita
Webb, Milton	Sec.	1-2	Fleetwood
Webb, Rilla	Sec.	1-2	Fleetwood
Webb, Gladys	Sec.	SS-1-2	Orlando
Weber, Katie	Bus.	-2	Cordell
Weigl, Hubert	Sec.	1	Tonkawa
Weiss, Mary	H. E., Jr.	-2	Harrah
Welch, D. H.	S. A. T. C.	1	Ponca City
Wells, Cecil Grey	Engr., Fr., S. A. T. C.	1-2	Kingston
Wells, D. T.	S. A. T. C.	1	Wagoner
Wertheim, Carl	Engr.r, Fr.	1	Tulsa
West, Wm. B.	Sec.	1	Headrick
Westfall, August	S. A. T. C.	1	Okeene
Wharton, Lola Carpenter	Sec.	-2	Stillwater
Wheeler, Blanche	H. E., Fr.	SS-1	Stillwater
Wheeler, Fern	Bus.	-2	Stillwater
Wheeler, Mabelle	H. E., Soph.	1-2	Blackwell
Whillock, Clyde S.	Uncl.	1	Stillwater
Whistler, E. W.	V. A.	1	Watonga
Whistler, Jessie	Edu., Soph.	1	Boynton
Whistler, Robert	Trades	1	Boynton
White, Lee Eddie	S. A. T. C.	1	Leedey
White, Mrs.	Uncl.	-2	Stillwater
White, Oscar A.	S. A. T. C.	1	Sulphur
White, Perry Fleming	Bus.	1-2	Hobart
Whitaker, Helen	Sec.	1-2	Stillwater
Whitaker, Florence	Sec.	1-2	Stillwater
White, J. R.	Sec.	1	Gleason, Tenn.
White, Lee	Trades	1	Madill
White, Bob	Agri., Sr.	1-2	Vinita
Whitlock, Flossie	Uncl.	1	Maramec
Whitten, Jas. Robert	Trades	1	Loco
Wickoff, Fred	Trades	1-2	Stillwater
Widener, Muncie	H. E., Soph.	1-2	Jefferson
Widener, Ray	Sec.	1-2	Jefferson
Wilbanks, Grady	Bus.	1-2	Atwood
Wilbar, Zella	Bus.	1	Drumright
Wilber, Philip A.	A. E., Sr.	-2	Guthrie
Wilber, Herbert F.	C. and M., Fr., S. A. T. C.	1-2	Guthrie

NAME	COURSE		ADDRESS
Wiles, Alma	Bus.	1	Glencoe
Wiley, Ross L.	Agri., Sr.	-2	Stillwater
Wiley, Glenn	Bus.	1	Stillwater
Williams, Ben	S. A. T. C.	1	Altus
Williams, Dave S.	Agri., Fr., S. A. T. C.	1-2	Purcell
Williams, Florence	Sec.	SS-1	Stillwater
Williams, Frances	Bus.	1-2	Stillwater
Williams, Geo. J.	Edu., Sr.	SS-1-2	Stillwater
Williams, Herbert	Trades	1	Walters
Williams, Howard	Agri., Fr.	1-2	Keota
Williams, J. F.	Trades	1	Atoka
Williams, Paul	C. and M., Fr.	1-2	Stillwater
Williams, Velma	Bus.	1	Stillwater
Willis, Russian	S. A. T. C.	1	Swcetwater
Willman, Marguerite	V. H. E.	1-2	Stillwater
Wilson, Chas. C.	Bus.	-2	Oklahoma City
Wilson, Elton T.	Engr., Fr., S. A. T. C.	1-2	Hennessey
Wilson, Mrs. Geo.	Uncl.	-2	Stillwater
Wilson, Doris	Uncl.	1-2	Stillwater
Wilson, Gordan	Uncl.	1-2	Stillwater
Wilson, Grade	H. E., Soph	SS-1-2	Stillwater
Wilson, Herbert C.	Sec., S. A. T. C.	1-2	Homestead
Wilson, Hubert H.	Trades	1-2	Oklahoma City
Wilson, Mrs. Jas.	Uncl.	-2	Stillwater
Wilson, Jap R.	Agri., Fr.	1-2	Leonard, Tex.
Wilson, Joseph B.	S. A. T. C.	1	Fort Towson
Wilson, Kenneth T.	S. A. T. C.	1	Hominy
Wilson, Josie	Sec.	-2	Pickering, Mo.
Wilson, Lee	Sec.	1-2	Oklahoma City
Wilson, Patrick Wm.	Agri., Soph., S. A. T. C.	1-2	Leonard, Tex.
Wilson, Wilbur	V. A.	1	Homestead
Wilson, Wm. H.	Agri., Fr.	1	Fort Towson
Windolph, Leo	Sec.	1	Camargo
Winkelman, Margaret	Bus.	SS-1	Cushing
Winsitt, Donald L.	Sec., S. A. T. C.	1-2	Higgins, Tex.
Wisherd, Martin James	V. A.	1-2	Stillwater
Wisherd, Thomas	V. A.	1-2	Stillwater
Wishnieff, Joseph	Uncl.	-2	
Witcher, Otis	S. A. T. C.	1	Holdenville
Withers, Addie	H. E., Soph.	1-2	Stillwater
Wolf, Orville	Trades	1	Ringwood
Wolfe, Carl	Trades	1	Watonga
Wolff, J. Powers	Edu., Jr., S. A. T. C.	1-2	Waukomis
Wolverton, Addie	H. E., Fr.	1-2	Wapanucka
Wood, John C.	Trades	1-2	Stapp
Wood, Naomi	Sec.	1-2	Bushyhead
Wood, Paul H.	E. E., Soph., S. A. T. C.	1-2	Lahoma
Wood, Theodore	Trades	1-2	Bushyhead
	Uncl.	1	Blackwell
Wood, William	Trades	1-2	Bushyhead
Woodhead, Lucy	H. E., Fr.	-2	Stillwater
Woodring, Clarissa	Bus.	1-2	Stillwater
Woodring, Confry	S. A. T. C.	1	Stillwater
Woolard, Chas.	Sec.	-2	Stillwater
Woolbert, Howard	Bus.	-2	Stillwater
Woolsey, Gilbert W.	Trades	1	Comanche
Word, C. V.	Engr., Fr., S. A. T. C.	1-2	Arnett
Word, E. Walter	C. and M., Fr., S. A. T. C.	1-2	Higgins, Tex.
Worrell, Frank	Sec.	1-2	Pond Creek
Worshaw, F. W.	S. A. T. C.	1	Woodward
Wright, Eva B.	H. E., Soph.	1-2	Stillwater
Wright, Helen	H. E. Fr.	SS-1-2	Perry
Wright, J. E.	Sec.	1	Chandler
Wyant, Edith Olive	Sec.	1-2	Orlando
Wyant, Carrie Marie	Sec.	1-2	Orlando
Wyatt, James W.	S. A. T. C.	1	Enid
Wyatt, Wm. B.	Sec.	1-2	Orlando
Wycoff, Elcanor	H. E., Fr.	1-2	Manchester
Wycoff, Geo. R.	Trades, S. A. T. C.	1-2	Manchester
Yates, Lonnie	Sec.	1	Altus
Yerian, Dean	Trades	1	Medford
Young, J. Clinton	Ch. E., Soph., S. A. T. C.	1-2	Hydro

NAME	COURSE		ADDRESS
Yocum, E. Clarence	S. A. T. C.	1	Grove
Young, John G.	Sec.	1	Stillwater
Young, Iona	C. and M., Soph.	1-2	Stillwater
Young, Lela	Sec.	-2	Stillwater
Young, Raymond	Sec.	1-2	Stillwater
Young, Rosa	H. E., Soph.	1-2	Red Rock
Young, Trissie	Edu., Sr.	1-2	Stillwater
Young, Verle	Edu., Soph.	1	Stillwater
Youngblood, Percy	Sec.	1	Marionville, Mo.
Zalabak, Tony B.	C. and M., Fr., S. A. T. C.	1-2	Kingfisher
Zeigler, Joel	Engr., Fr.	1	Shamrock, Tex.
Zeigler, Raymond	S. A. T. C.	1	Shamrock, Tex.
Zeman, John K.	C. and M., Fr.	1-2	Medford

Summer Session Students

Agy, Florence, Talihina
Aikins, Nellie Pitzer, Stillwater
Allen, Lancy, Tonkawa
Anderson, Ella, Corning, Ark.

*Bagby, Helen, Pawnee
Bagby, Virginia, Perry
Barthel, Blanche, Stillwater
Baxter, Olive, Tulsa
Beavers, Gertrude, Stillwater
Bachtel, Jewel, Glencoe
Bertram, Eli, Stillwater
Biggs, Rena, Perry
Bilyeu, R. I., Warner
Bilyeu, Mrs. R. L., Stillwater
Black, Lillian, Lawton
Booth, S. T., Leflore

Calame, Winifred, Stillwater
Callarman, Eva, Stillwater
Campbell, Frances, Okmulgee
Carpenter, C. H., Warner
Casey, Ada, Mulhall
Chapman, Ethel, Okmulgee
Cheatham, Vera, Warwick
Childress, Clara, Stillwater
Clausen, Nellie, Stillwater
Clausen, Lillian, Stillwater
Clausen, Ethel, Stillwater
Clifton, Pearl, Perkins
Cochran, Virginia, Glencoe
Coe, Anna, Sulphur
Collins, Lenora, El Reno
Collins, Ruth, El Reno

Darlow, Margaret, Stillwater
Davidson, Nellie, Stillwater
Dawson, Sidney, Chickasha
Deuel, Thelma, Cleveland
Dickson, G. K., Stillwater

Edmaiston, Alvin, Stillwater
*Edmaiston, Edith Hesser, Stillwater

Fairchild, Louella, Morrison
Fiala, Agnes, Goodinght
Finn, Alta, Foraker
Finnell, Mrs. Marguerite, Stillwater
Fisher, Goldia, Yale
Fisher, Irene, Stillwater
Flower, Agnes, Stillwater

German, Martha, Stillwater
Gilbert, Mrs. Bertha, Stillwater
Giles, O. A., Stillwater
Glanville, Mrs, Effie, Perry

Hanson, Grace, Stillwater

Anderson, Ella, Pawhuska
Atkinson, Lillian, Stillwater
Atkinson, Florence, Stillwater
Atkinson, Irene, Stillwater

Brandenburg, Lucy, Yale
Bratton, Letha, Stillwater
Brensing, Nora, Skedee
Briggs, Mrs. Bertha, Stillwater
Brock, Mary, Kendrick
Brown, Pearl, Walters
Brown, Opal, Sand Springs
Brown, Vlara, Cushing
Burnham, Zoe, Stillwater
Buzzard, Agnes, Dale
Bybee, Blanche, Pawnee

Collins, Mrs. Mabel, Stillwater
Conley, Aora, Maramec
Cooley, Fannie, Stillwater
Cooley, F. F., Weatherford
Copley, I. R., Yale
Corbin, D. C., Yukon
Cowan, J. P., Stillwater
Courtney, Nellie, Yale
Cox, Erma, Chandler
Crider, Blanche, Pond Creek
Crispin, George, Glencoe
Crossley, Rosa, Luther
Cruzan, Ethel, Stillwater
Cumming, Mary E., Pawhuska
Cunningham, Beulah, Pawnee
Currey, Katherina, Stillwater

Dollinger, Ida, Stillwater
Donham, Kate, Okmulgee
Driscoe, Blanche, Dale
Dryden, Mollie, Stillwater
Dye, Jessie, Stillwater

Ellis, Lois, Stillwater

Flower, Florence, Stillwater
Flower, Hazel, Stillwater
Ford, Lola, Headrick
Fretwell, Jane, Henryetta
Friedemann, Lydia, Stillwater
Frost, E. M., Stillwater

Graves, Laura, Stillwater
Gray, Grace, Stillwater
Guinn, Opal, Wellston

Harris, Elsie, Cushing

NAME	COURSE	ADDRESS
Hart, Mrs. Connie, Cushing		High, W. L., Stillwater
Hatcher, Florence, Stillwater		Hinkle, Bess, Stillwater
Hayman, Etta, North Enid		Hodge, Ruby, Perry
Hazel, Earl, Altus		Holeman, Janie, Olive
Henderson, Ora, Tribbey		Holt, Gertrude, Stillwater
Henson, Helen, Stillwater		Huckabay, Mongtta, Tulsa
Herrin, Ronnie, Edmond		Hughes, Elezebeth, Stillwater
Hesser, Mildred, Glencoe		Hughes, Gladys, Stillwater
Hiet, Sadie, Morrison		Hughlett, Inez, Tulsa
Hickman, Bessie, Perkins		Hutcheson, Bessie, Stillwater
Jacob, Eureka, Stillwater		Johnston, Helen, Stillwater
Johnson, Norman, Stillwater		Jones, Hazel, Stillwater
Johnson, Ruth, Glencoe		
Keating, Addie, Yale		King, Gladys, Stillwater
Kenyon, Hallie, Kaw		Kinney, Arvie May, Yale
Kennedy, Mabel, Morrison		Kirk, Addie, Perkins
Kern, Garnet, Drumright		Kirkpatrick, Ethel, Stillwater
Kessinger, Bessie, Hobart		Klaber, Mattie, Okmulgee
Kimberlin, Pete, Altus		Kuhlmeier, Iva, Hunter
Kimberlin, Mattie, Altus		Kuhlmeier, Alma, Hunter
Larrabee, Archie, Blackwell		Lingenfelter, Emma, Perkins
Latimer, Louise, Lexington		Long, Iola, Pawnee
Lewis, Lee, Stillwater		Lyons, Catherine, Wellston
McAlister, Iva, Ada		McDonald, Doris, Stillwater
McCarrel, Ed, Stillwater		McKinnon, Letha, Glencoe
McCarrel, Mrs. Ed, Stillwater		McLaury, Lorene, Cushing
McCormick, Edna, Yale		
Melernee, Alfa, Tryon		Moore, Guilia, Blackwell
Maloney, Grace, Soper		Moon, Elmina, Pawnee
Maloney, Lorene, Soper		Moore, Ida, Andrews, S. C.
Markwell, Ethel, Stillwater		Moore, Ethel, Pawnee
Maroney, Mrs. S. A., Stillwater		Moore, Beulah, Stillwater
Maroney, Hugh, Stillwater		Moore, Esther, Stillwater
Maroney, Mildred, Stillwater		Moone, Carrie, Blackwell
Mellick, Leslie, Lahoma		Moreland, Jean, Dallas, Tex.
Melton, Loren, Stillwater		Morgan, Minnie, Cushing
Merritt, Mildred, Pawnee		Morris, Mabel, Meno
Miller, Blanche, Chandler		Morris, Florence, Meno
Mitchell, Gladys, Glencoe		Myers, Sam, Stillwater
Montgomery, Vivian, Drumright		Myrick, Vera, Perkins
Nash, C. W., Hydro		Neville, Nell, Altus
Nash, Florence, Hydro		Newman, Beulah, Lawton
Nauman, Marie, Cushing		Newton, Maude, Stillwater
Nelson, Eunice, Stillwater		Noble, Beulah, Yale
Osterloh, Bonnie, Trousdale		Owen, Christine, Purcell
Otey, Ivo, Stillwater		Owen, Margaret, Purcell
Paine, Ursa, Trousdale		Pittman, Grey, Hugo
Palk, Annetta, Hollis		Pool, Mrs. E. T., Stillwater
Parker, Evelyn, Glencoe		Pool, Grace, Stillwater
Parker, Grace, Glencoe		Powell, Bessie, Decatur, Tenn.
Patterson, Jennie, Blackwell		Powell, Pearl, Ponca City
Patton, Pearl, Stillwater		Prater, Richard
Peck, Dora, Vinita		Pratte, Vada, Orlando
Peebles, Grace, Oklahoma City		Priddy, Anna, Blackwell
Rader, Sarah, Glencoe		Remington, Della, Avery
Radnish, Laura, Stillwater		Remy, Myrtle, Tribbey
Ramsey, Geneva, Cushing		Richardson, Florence, Stillwater
Ransom, George, Stillwater		Richardson, Mrs. S. C., Headrick
Ray, Marion, Stillwater		Rishmond, Winnie, Stillwater
Reaves, Christine, Pauls Valley		Robinson, Ethel, Glencoe
Remington, Izetta, Avery		Rushing, Frances, Cleveland
Sager, Helen, Stillwater		Sexauer, Genevieve, Guthrie
Sanford, John, Pawnee		Shannon, Cecil, Perkins
Schooler, Rachel, Stillwater		Sherrard, Olive, Centralia, Iowa
Scott, Hazel, Perry		Shumate, Loreen, Perkins
Secord, Ruth, Nash		Smart, Faye, Stillwater

NAME	COURSE	ADDRESS
Smith, Gladys E., Tulsa		Stanfield, Maude, Valley
Smith, Caroline, Skedee		Stansbury, Annie, Stillwater
Sorrell, Vella, Soper		Steward, Mrs. Una, Anadarko
Spencer, Mrs. Tracy, Stillwater		Steward, Eunice, Anadarko
Srack, Bertha, Chandler		Stockton, Julia, Perkins
Stafford, Vera, Pawnee		Studebaker, Rosa, Stillwater
Stallings, Ella, Morton, Ark.		Swaim, Beatrice, Coloflats, Colo.
Tankersley, Mrs. Kate, Stillwater		Thompson, Cora, Pawnee
Tesh, Gladys, Stillwater		Thornton, Mrs. Charlotte, Stillwater
Thomas, Ada, Stillwater		Toliver, Doc, Wynnewood
Thomas, Katheryn, Stillwater		Tolleson, F. Grace, Stillwater
Thompson, Hazel, Pawnee		Trekell, Edna, Hunter
Thompson, Stella, Ralston		Trump, Maude, Yale
Thompson, Ferral, Stillwater		Tucker, Pansy, Glencoe
Upp, Blanche, Cushing		
Vaughn, Velma, Stillwater		Voyles, Claude, Stillwater
Vincent, Mrs. V. V., Stillwater		Voyles, Opal, Stillwater
Walker, Irene, Helena		Williams, M. L., Stillwater
Wallace, Mary, Stillwater		Williams, Edith, Mulhall
Wallin, Alta, Stillwater		Wilson, Maud, Catoosa
Weathers, Sydney, Stillwater		Winget, Alberta, Cushing
Webb, Cassie, Yale		Winkelman, Beulah, Cushing
Weems, Freda, Perkins		Wittich, Grace, Stillwater
Wheeler, Pearl, Stillwater		Wood, Ray, Randlett
Whipple, Eva O. Davis, Stillwater		Wood, Ruby, Stillwater
Whipple, Pauline, Stillwater		Wood, Ina, Stillwater
White, Calvin, Stillwater		Woolbert, Enid, Stillwater
Wilber, Nora, Tribbey		Yeargin, Gladys, Stillwater
Wiley, Frank, Stillwater		

THE ALUMNI

The following is a list of the graduates of the College. In case of change of address, it is especially desired that graduates advise the Registrar of same. The courses from which alumni have received their degrees are indicated as follows:

I. Agriculture.
II. Engineering.
III. General Science.
IV. Domestic Science and Art.
V. Science and Literature.
VI. Teachers' Normal Training.
VII. Commerce and Marketing.

(Abercrombie) Rapp, Leona, IV, 1917, at home ..... Stillwater
Abersrombie, Lieutenant Russell T., I, 1916 ..... 64th Inf., 7th Div., A. E. F.
Abernathy, Eunice, VI, 1916, Teacher ..... Altus
Abernathy, Ora, IV, 1916, Teacher ..... Hollis
Abernathy, Oscar, V, 1915 ..... Hollis
Acheson, Margaret, VI, 1912, Christian Science Practitioner ..... Jacksonville, Fla.
(Adams) Weaver, Kathryn, IV, 1916, at home ..... Stillwater
Adams, A. W., I, 1896, Real Estate Agent ..... Fort Worth, Tex.
Adams, J. H., I, 1896, Oil Properties Broker ..... Fort Worth, Tex.
(Adams) Short, Myrtle, IV, 1913, at home ..... Little Rock, Ark.
(Alkins) Evelyn McKeeman, IV, 1911, at home ..... Stillwater
Akogi, Yutaka, I., I, 1912 ..... Tokio, Japan
Albert, H. R., V, 1913, Superintendent of Schools ..... Heavener
Allen, H. S., II, 1910, 3533 Tracy avenue ..... Kansas City, Mo.
Anderson, R. L., I, 1917 ..... Military Service
Anderson, A. B., II, A., T. and S. F. Rry., ... Machinist, 1902 ..... Canadian, Tex.
Anderson, P. K., II, Headquarters Co., 17th Ry. Engrs., 1915 ..... A. E. F.
Anderson, A. W., III, 1900, Lawyer ..... Woodward
Anderson, R. E., V, 1908, Attorney-at-law ..... San Diego, Calif.
Anderson, Albert A., II, 1916, Assistant Inspector of Engine Material ..... Wilkinsburg, Pa.
Andrew, Carl S., I, 1916, at home ..... Stillwater
Andrews, Myron, I, 1916, Mobile Field Laboratory, 90th Div ..... A. E. F.
Andrews, Maude, IV, 1915, Home Demonstration Agent ..... Idabel
Arabajian, H. K., I, 1915, General Benevolent Union ..... Cairo, Egpyt
Atkinson, Mary B., III, 1906, at home ..... Stillwater
Aycock, Thomas, VII, 1918, Newspaper Work ..... Altus

Baade, H. J., III, 1910, Teacher ..... Presidio, Calif.
Baird, R. O., III, 1908, Assistant Food Commissioner ..... Forga, N. D.
Baker, De La Rue, V, 1914, Farm Demonstration Agent ..... Tulsa
Ball, H. L., II, 1905, Salesman, Western Electric and Mfg. Co ..... Rochester, N. Y.
(Bandel) Kyte, Maude, IV, 1915, at home ..... OklahomaCity
Bandelier, George, II, 1918, Assistant to County Engineer ..... Stillwater
(Barnes) Heston, Hazel, IV, 1918, at home, 1530 Vincent avenue ..... Chicago, Ill.
Barnes, Henry Dale, I, 1914, Livestock Farmer ..... Banner
Bartlett, Alice, VI, 1917, Teacher ..... Deer Creek
Bartlett, E. E., V, 1912, Treasurer, Bartlett & Collins Glass Co ..... Sapulpa
Bartlet, E. C., I, 1912, Pine Grove Ranch ..... Rye, Colo.
(Bass) Nelson, Lillian, VI, 1915, at home ..... Houston, Tex.
Bauman, Chas., V, 1916, Farming ..... Bessie
Beck, Paul V., V, 1916, Liuetenant ..... Military Service
(Bellis) Means, Ida Olive, V, 1914 ..... McLoud

Bennett, Paul, II, 1908 ..... Stillwater
Bentley, M. R., II, 1909, County Agent ..... Taloga
Berry, Roger, I, 1918, Teacher, Connors State School of Agriculture ..... Warner
Biggin, Dorothea, VI, 1916, Teacher ..... Birmingham, Ala.
Bilyeu, R. I., V, 1905, Farmer ..... Copan
Black, J. A., I, 1917, at home ..... Wapanucka
Blackwell, C. P., V, 1911, Instructor in University of Texas ..... University Station, Austin, Tex.
Bloom, C. B., II, 1913, Science and Research, Aviation Div. ..... Waco, Tex.
Blue, True C., II, 1909, Mgr., Bagnall & Hillis Co., Agents for Electrical Co. ..... Libo, Kans.
Blue, F. R., II, 1905, Road Commissioner ..... Cushing
Boley, A. L., II, 1908, Chief Electrician, Navy Yard ..... Washington, D. C.
Bonar, Mollie M., VI, 1916, Teacher ..... Tilton
Bonar, H. T., II, 1913, Westinghouse Electric and Mfg. Co. ..... New York City, N. Y.
Booth, John Vite, I, 1917 ..... Leflore
Boutin, H. C., II, 1909, Automobile Salesman ..... Pawhuska
Bowers, G. W., III, 1897, Railway Conductor, St. L. and S. F. Ry. ..... Enid
Bowers, Chas., I, 1913, Teacher ..... Goldonna, La.
Bowers, R. D., III, Lawyer ..... Roswell, N. M.
(Boyd) Muncie, Nina, VI, 1915, at home ..... Stillwater
Boyd, Oran Cecil, I, 1916 ..... Hooker
Boydston, Ethel, IV, 1915, U. S. Hospital Nurse ..... Fort Sam Houston, Tex.
(Braden) Gertrude Robertson, III, 1906, at home ..... Sapulpa
(Bradwell) Newby, Ollie, V, 1909, Music Teacher ..... Gate
(Brandon) Lewis, Edna, IV, 1915, at home ..... Stillwater
Brannin, Mrs. Lewis, VI, 1918, at home ..... Louisville, Ky.
Brannin, Louis, I, 1914, Manager of Ranch ..... Louisville, Ky.
(Bras) Okens, Ruth, III, 1907, at home ..... Okechobee, Fla.
(Breidenthal) Coppedge, Hazel, at home ..... Cleveland, Kans.
Breuer, E. H., II, 1911, Manager, El Reno Foundry and Machine Co. ..... El Reno
(Brian) De Merritt, Naomi, IV, 1915, at home ..... Newkirk
Bridges, John W., VI, 1916, Department of Education, Oklahoma University ..... Norman
Briggs, Glen N., I, 1916, Agronomist ..... Island of Guam
Brisby, Cassie K., IV, 1915, Teacher ..... Skiatook
Briscoe, Jack, II, 1917, Goodyear Rubber Co. ..... Akron, Ohio
Brodell, A. P., I, 1917, Land Classification, U. S. Geological Survey ..... Washington, D. C.
Brodell, Arthur Clarence, VI, 1914 ..... Washington, D. C.
Broemel, Agnes, VI, 1915, Student University of Chicago ..... Chicago, Ill.
Broom, Rose, V, 1905, Teacher ..... Howe
(Brooke) Schreiber, Hazel, V, 1914, at home ..... Harriston, Va.
Brower, Laura, IV, 1916, Teacher ..... Cleveland
Brower, Maude, IV, 1918, Teacher ..... Stigler
Brown, Mary E., VI, 1917, Teacher ..... Cushing
Brown, Chas., III, 1906, Bookkeeper-Truck Gardener ..... East Lansing, Mich.
Brown, C. B., I, 1913, Assistant, Dry Land Agriculturist, U. S. Geodetic Dept. ..... Garden City, Kans.
Brown, J. J., II, 1903, General Electric Co. ..... Manila, Philippine Islands
Brown, Oliver Conrad, II, 1914, Inspector of C. and R. Material ..... Schenectady, N. Y.
Browning, J. M., I, 1915, Agriculturist ..... Paragould, Ark.
Brumbaugh, Norma May, IV, 1917, Teacher ..... Keifer
Bryant, Ray M., I, 1917, Assistant County Agent ..... Ardmore
Buchanan, W. A., I, 1912, County Agricultural Agent ..... Marshalltown, Iowa
Buddrus, Edmond, I, 1917, Lieutenant ..... Military Service
Buffington, Edith, VI, 1918, Teacher ..... Carney
Buffington, Betha, IV, 1912, Teacher ..... Perry
Bullen, B. C., III, 1912, Medical Student, Columbia University ..... New York City, N. Y.
Bullen, C. K., II, 1909, Water Supreintendent, Cosden Oil Co. ..... Yale
Bullock, N. P., Jr., III, 1899, Mail Carrier ..... Pauls Valley
Burke, Elizabeth, IV, 1913, Stenographer, President's Office, A. and M. ..... Stillwater
Burke, M. P., II, 1909, Science and Research Division ..... Waco, Tex.
Burke, W. J., II, 1911, Lieutenant ..... A. E. F.
Burlison, Wm. L., I, 1905, Associate Professor of Agronomy, University of Illinois ..... Urbana, Ill.
*Burnett, Roy E., III, 1905 .....
Butler, Joe, II, 1915, First Lieutenant, 109th Engrs, A. E. F. ..... St. Amond, France

Caldwell, Mabel, VI, 1918, Assistant Superintendent of Inst. and Ext. Schools ..... Manhattan, Kans.
Caldwell, Virgil, V, 1917, 5th Infantry ..... Camp Lee, Va.
Camp, W. E., II, 1910, Agent, General Electric Co. ..... Sacramento, Calif.
Campbell, Jeff, VII, 1917, 11th Field Artillery ..... A. E. F.
Campbell, Milton Bryant, I, 1914, Farmer ..... Chickasha
Campbell, Rhea, VI, 1915, Assistant Bacteriologist, State Health Dept. ..... Guthrie

*Deceased.

(Campbell) Santee, Viola, IV, 1913, at home ..... Muskogee
Canfield, Jess J., V, 1916, Student University of Illinois ..... Urbana, Ill.
Carlson, Floyd, I, 1918, Farmer ..... Meno
Carlson, Grace, IV, 1917, Teacher ..... Cherokee
Carlyle, Kathleene, IV, 1917, Student, Sargent School of Physical Culture ..... Cambridge, Mass.
Carney, Zora Martha, IV, 1914, Teacher ..... Rushville, Ind.
Carpenter, Chas. L., I, 1915, Farmer ..... Bridgeport
Carson, Ross L., III, 1907, Hardware Business ..... Perkins
Carson, Susie, III, 1912, Hardware Business ..... Perkins
Carter, E. O., II, 1916, Pioneer Telephone Co ..... Oklahoma City
Carter, W. C., II, 1911, Salesman, Westinghouse Electric and Mfg. Co ..... Grand Rapids, Mich.
(Cassali) Peck, Louise, IV, 1911, at home ..... Stillwater
Cass, Early, I, 1915, Chemist, Cosden Oil Co ..... Tulsa
(Castle) Vance, Lois, IV, 1918, at home ..... Atlanta, Ga.
(Caton) Younge, Orpha, V, 1909, Teacher ..... Muskogee
Caudell, A. N., III, Assistant in Entomology, U. S. Dept. of Agri., U. S. National Museum ..... Washington, D. C.
Chandler, Emma, V, 1907, Assistant State Agent, Extension Division, A. and M. ..... Stillwater
Chandler, F. F., II, 1904, Assistant to Superintendent of Foundries, Bethlehem Steel Co ..... Behtlehem, Pa.
(Chester) Goodwin, Bertha, III, 1907, at home ..... Nevada, Mo.
Chewning, W. P., I, 1917, Assistant in College Dairy, A. and M ..... Stillwater
(Chivington) Tyson, Anna, IV, 1911, at home ..... Tulsa
Choate, George R., I, 1915, Military Service ..... Somewhere in Germany
Clark, Arthur C., II, 1906, Mail Service ..... Claremore
Clark, F. J., III, 1908, Assistant Editor, The Farmer ..... St. Paul, Minn.
Clark, C. L., V, 1914, Vice President, Hillman Oil and Gas Co ..... Cushing
Clark, J. T., III, 1898, Farmer ..... Puerto Princesa, Palawan, Philippine Islands
Clausen, Elsie M., VI, Bookkeeper ..... Oklahoma City
Clausen, Lillian, VI, 1918, Stenographer ..... Stillwater
Clausen, Nellie Christine, IV, 1914, Teacher ..... Caddo
Clausen, Mrs. B. J., VI, 1912, Care Rush Medical School ..... Chicago, Ill.
Clausen, B. O., II, 1912, American Propeller and Mfg. Co ..... Baltimore, Md.
Clausen, R. E., I, 1910, Lieutenant ..... Berkeley, Calif.
Clay, Henry, V, 1918 ..... Ninnekah
Clemmer, H. J., I, 1915, Assistant Dry Land Agriculturist ..... Woodward
Cloukey, H. U., III, 1909, Chemist, Forest Products Laboratory, Forest Service, U. S. Department of Agriculture ..... Madison, Wis.
Cobb, A. L., II, 1913, Chief Inspector of Ammunition Sec ..... New York City, N. Y.
(Cobb) Payne, Mary, IV, 1913, at home ..... Amherst, Mass.
Coburn, Carrol, II, 1912, Lieutenant of Enginers, U. S. A ..... Washington, D. C.
Cole, Frank, III, 1908, Solution Foreman, Anaconda Copper Mining Co ..... Anaconda, Mont.
Cole, Pearl, VI, 1917, Principal of High School ..... Shamrock
Comstock, Harry, II, 1905, General Superintendent, Assex Co ..... Mineville, N. Y.
Conn, Julian, II, 1915, Evaluation Engineer, U. S. Government ..... Kansas City, Mo.
Connell, W. B., V, 1912, Lieutenant, Motor Transport Corps ..... A. E. F.
Conner, W. A., I, 1917, District Agent, Extension Division ..... Stillwater
Conklin, Harry E., II, 1914, Westinghouse Electric and Mfg. Co ..... Detroit, Mich.
Conway, Wm. Thomas, I, 1910, State Club Leader ..... State College, N. M.
Cook, H. P., II, 1914, Science and Research, Aviation ..... Camp McArthur, Waco, Tex.
Cooley, D. F., VI, 1916, Bookkeeper ..... Drumright
Corbin, Bert O., II, General Electric Co ..... Scottdale, Pa.
Correll, V. I., V, 1912, Fourth Training Camp ..... Camp Pike, Ark.
*(Cox) Fisher, Mary, IV, 1913 .....
Crawford, George L., I, 1915, County Agent ..... Dickens, Tex.
Crawford, C. W., III, 1909, Chemist, Bureau of Chemistry, U. S. Department of Agriculture ..... Washington, D. C.
Crocker, Fred, V, 1912, Bacteriologist ..... Fairfield, Ala.
(Cummings) Hamilton, Maxie Carl, VI, 1916, at home ..... Tulsa
Cunningham, Katherine, VI, 1917, Teacher ..... Glencoe

Dale, Ernest Brock, II, 1914, M., K. and T. Ry. of Texas, Maintenance of Way ..... Smithville, Tex.
Davidson, Lois, VI, 1918, Assistant Librarian, A. and M. College ..... Stillwater
Davis, George E., II, 1916, at home ..... Stillwater
Davis, R. N., I, 1911, Dairyman ..... Salmon, Idaho
DeBord, George G., V, 1914, Bacteriologist, U. S. Dept. of Agri ..... Washington, D. C.
Denton, Mary Belle, IV, 1918, at home ..... Newkirk
Denton, Esther, IV, 1917, Teacher ..... Newkirk
Denton, Elizabeth, IV, 1916, Assistant Cashier, First National Bank ..... Skiatook
(Dillon) Moorhouse, Lucille, V, 1917, at home ..... Stillwater
Dickson, G. K., V, 1917, Student of Medicine ..... St. Louis, Mo.

*Deceased.

(Donart) Coffey, Cora, III, 1900, at home ..... Lawton
Dolde, W. E., II, 1912, Teacher ..... Burbank, Calif.
Donart, C. R., 1899, County Agent, U. S. Dept. of Agri ..... Oklahoma City
(Donart) Wilcoxson, Gladys Kinyon, IV, 1914, at home ..... Stillwater
Donehoo, Grace, IV, 1918, Teacher ..... Wilburton
*Dorman, W. S., II, 1911 .....
Doty, Harold, I, 1915 ..... Stillwater
Dougan, E. E., II, 1907, General Electric Co ..... Pittsfield, Mass.
Douglas, Marion, VI, 1917, High School Principal ..... Yale
Drake, T. J., V, 1913, Real Estate Business ..... Fort Lauderdale, Fla.
Drummond, A. A., I, 1915 ..... Hominy
Drummond, Frederick Gentner, V, 1914, Merchant and Banker ..... Hominy
Duck, T. W., 32, 1912, Assistant Engineer, Missouri Pacific Ry ..... Wynne, Ark.
Duck, F. E., I, 1896, Farmer ..... Stillwater
Durham, S. B., I. 1904, Dairy Husbandman, Bureau of Animal Industry, U. S. Department of Agriculture ..... Denison, Tex.
(Dysart) Teters, Minnie, III, 1899, at home ..... Oklahoma City

Eads, Velma, IV, 1913, Agriculturist ..... Kansas City, Mo.
Eberle, Dovie, III, 1906, Dietition in Hospital ..... New York City, N. Y.
Edson, E. O., I, 1915, Agriculturist, Hospital for Insane ..... Jackson, La.
Elston, W. B., II, 1915, Motor Experiment Department ..... Dayton, Ohio
(English) Lantz, Maude M., III, 1907, at home ..... Orlando
Emmons, Clarence, II, 1918, Engineer, Vinita Electric Co ..... Vinita
Emmons, Mrs. Clara, VI, 1917, Extension Division ..... Guthrie
English, Wm. L., I, 1905, Supervisor of Agriculture, Frisco Lines ..... St. Louis, Mo.
(Evans) Whittenberg, Ruth, IV, 1917, at home ..... Drumright
Evans, A Ray, I, 1912, Grain Investigations, Bureau of Markets, U. S. Dept. of Agriculture ..... Washington, D. C.
Epperson, Jesse Harrison, V, 1914, Director, Bacteriological Laboratory ..... Durham, N. C.

Fair, R. M., VI, 1917, Sarbonne University, A. E. F. ..... France
Fansher, Ted, I, 1913, Livestock Breeder ..... Edmond
Fansher, R. A., I, 1912, Registered Jersey Cattle Business ..... Edmond
Faulds, N. M., II, 1910, Truck Farmer ..... Wachula, Fla.
Fellows, Iris, VI, 1917, Teacher ..... Henryetta
Fellows, Reeda, IV, 1917, at home ..... Stillwater
Fellows, Keith, II, 1915, Lieutenant, Co. F, 12th Regiment Ry. Engrs. ..... A. E. F.
Fennema, Nick, I, 1915 ..... Lawton
(Finch) Connell, Laura, IV, 1915, at home ..... Dallas, Tex.
Finnell, H. H., I, 1917, Agriculturist ..... Stillwater
First, Fern, VI, 1916, Teacher ..... Stillwater
*Fish, Wayne, II, 1918 .....
(Fisher) Hinkel, Florence, IV, 1917 ..... Rockford, Ill.
(Fisher) Marx, Anna, IV, 1915 ..... Pawnee
Fisher, J. G., II, 1910, Manager, Cotton Plantation ..... Tempe, Ariz.
Fisher, J. M., II, 1915, Efficiency and Maintenance Engineer ..... Ford City, Pa.
Flower, A. W., III, 1902 ..... Halfway, Ore.
Ford, A. G., III, 1898, Proprietor and Manager, Insurance and Loans ..... Muskogee
Ford, W. W., II, 1913, Teacher ..... Chickasha
Forrester, C. T., I, 1917 ..... Woodward
Forrester, Wirt E., I, 1915, Stockman ..... Cherokee
Forrester, D. R., I, 1913, Farmer and Stockman ..... Walnut Ridge, Ark.
Foster, Faye F., I, 1915 ..... Perry
(Rogers) Foster, Nell Hahnonah I, 1914, at home ..... Miami
Forsyth, Fred, II, 1917, Lieutenant, 82d Field Artillery ..... Fort Bliss, Tex.
Forsyth, Andrew, I, Lieutenant, Troop E, 6th Cavalry ..... A. E. F.
Francis, Victor, II, 1908, Superintendent Wagoner Light and Water Plant ..... Wagoner
Freeman, Ray F., I, 1916, Stock Farm ..... Fort Worth, Tex.
(Frieday) Barnett, Almira, IV, 1912, at home ..... Crossett, Ark.
Frieday, Gladys, IV, 1917, Teacher ..... Choteau, Mont.
French, Mattie, IV, 1917, Teacher ..... Cushing
Frensel, H. H., II, 1912, Assistant Department of Mechanics, University of Wisconsin ..... Madison, Wis.
Friedemann, Theodore, V, 1915, Medical Corps, Base Hospital ..... Fort Hancock, Ga.
Friedemann, Wm. Gustav, V, 1913, Assistant in Chemistry Department, A. and M. College ..... Stillwater
Frier, C. H., II, 1911 ..... Dallas, Tex.
Frost, John, II, 1918, Machinist's Mate, First Class, U. S. Navy, U. S. Ship Idaho ..... Care P. M., N. Y.
Funda, F. P., II, 1910, Assistant Engineer, Co. E, A. E. F. ..... Bordeaux, France

Gaasch, Glenn, II, 1909, Chief Engineer, Sinclair Oil Co ..... Tulsa
Gager, E. H., II, 1908, Substation Department, Commonwealth-Edison Co ..... Chicago, Ill.

*Deceased.

Gallagher, E. C., II, 1909, Physical Director, A. and M. College ..... Stillwater
Galyon, E. O., II, 1911, Engineer, Westinghouse Electric and Mfg. Co.... St. Louis, Mo.
Gammie, R. J., II, 1910, Assistant Engineer, Valuation Dept., Texas and Pacific Railway Co..... Dallas, Tex.
Gardner, Frank, II, 1911, Engineer, Stone & Webster Engr. Co..... Dallas, Tex.
Garrett, Emmett L., VI, 1915, Coach in High School ..... Leavenworth, Kans.
Gaudian, Will, II, 1912, Wireman, Electrical Division, Panama Canal ..... 24 Pedro Miguel
Geren, Louis, I, 1918, U. S. Marines ..... Somewhere in France
Getgey, John Jacob, V, 1914, Producers and Refiners Corporation, Prod. Dept. ..... Blackwell
Gilbert, N. T., III, 1898, Banker, Producers State Bank ..... Tulsa
Gilbert, J. C., I, 1904, U. S. Department of Agriculture ..... Boston, Mass.
Gilmer, T. P., II, 1913, Coast Artillery ..... Boston, Mass.
Gloeckner, G. L., II, 1917, Aeronautical Detachment, Naval ..... Miami, Fla.
Goe, Walter B., VI, 1918 ..... Hayward
Goff, T. T., III, 1900, Teached in State Normal School ..... Whitewater, Wis.
Gollehon, Floyd, II, 1910, Piano Salesman ..... Cherokee
Goltry, H. U., V, 1913, Farmer-Stockman ..... Marietta
Goom, Austin, V, 1912, Banker, Farmers State Bank ..... Ripley
Gordon, Mae, IV, 1916, Stenographer, Extension Division, A. and M. College..... Stillwater
(Gordon) Walters, Julia, VI, 1916, at home ..... El Reno
Gougler, F. A., I, 1909, County Agricultural Agent ..... Warrensburg, Mo.
Graham, Earl E., I, 1915 ..... Charlestown, Ark.
Graham, Milton C., VI, 1916, County Agent ..... Little Rock, Ark.
Graham, Douglas S., V, 1914 ..... Charlestown, Ark.
Graham, Quentin, II, 1914, Engineering Department, Westinghouse Electric and Mfg. Co..... East Pittsburgh, Pa.
Granberry, Carl Ellis, VI, 1914, Medical Student, University of Kentucky ..... Louisville, Ky.
Gravelle, E. E., II, 1913, Road and Bridge Contractor ..... Ardmore
(Gray) Wheeler, Ruth, V, 1917, at home ..... Blackwell
Gray, Willis, II, 1917, Salesman, Tulsa Motor Co..... Tulsa
Gray, Julia, IV, 1918, Teacher ..... Kiefer
(Gray) Ward, Mina, IV, 1916, Teacher ..... Watonga
Gray, W. F., I, 1912, County Agent ..... Woodward
Green, William J., I, 1916, Extension Worker ..... Island of Guam
Gregory, H. W., I, 1912, Dairyman ..... West Lafayette, Ind.
Greiner, E. M., Chemist ..... Gary, Ill.
Griggs, Oscar C., VI, 1915, Teacher ..... Caddo
Gulick, H. S., II, 1903, Metallurgical Engineer, Moore-Jones Brass Metal Co..... St. Louis, Mo.
Guynn, P. N., II, 1904, Chief Draftsman, Illinois Steel Co..... Chicago, Ill.

(Hagar) Groves, Hyral, V, 1910, at home ..... Ripon, Wis.
Hagar, William Edgar, I, 1914, Manager of Central Garage ..... Stillwater
(Hale) Cooley, Fannie, VI, 1917, at home ..... Drumright
Hall, Roy V., II, 1911, Farmer ..... Perkins
Hall, Ethel Faye, VI, 1914, Teacher ..... Apache
Hamilton, F. C., V, 1910, Analitical Chemist, Acid Plant for Atlas Powder Co. ..... Webb City, Mo.
Hamblin, Clyde, II, 1904, 1104 Fairmont, N. W..... Washington, D. C.
Hamilton, J. Homer, V, 1910 ..... Military Service
Hamilton, Fearne, V, 1913, at home ..... Stillwater
Hamon, C. A., II, 1910, Electrical Engineer ..... Salt Lake City, Utah
Hamon, R. J., V, 1911 ..... Washington, D. C.
Hamon, Fannie, V, 1908, at home ..... Davis, Fla.
(Hancock) Hess, Joy B., IV, 1909 ..... Oklahoma City
Hancock, A. V., II, 1907, Manager of Oklahoma Office, Southwest General Electric Company ..... Oklahoma City
(Hannifin) Vance, Edna Josephine, IV, 1914, at home ..... Corwin, Kans.
Hann, F. R., Jr., II, 1912, Teacher ..... Houston, Tex.
Harnden, F. D., VI, 1914, Teacher ..... Jenniings
Harnden, M. G., I, 1917 ..... Stillwater
Harnden, E. E., V, 1912, Instructor in Bacteriology and Chemistry ..... Stillwater
Harris, Motier, VI, 1917, Teacher ..... Supply
Harris, Inez June Bibby, VI, 1913, Teacher ..... Morris
Harrison, L. D., V, 1913, Lieutenant ..... A. E. F.
Hart, Haden, I, 1913, Stock Farming ..... Hanford, Tex.
Hartenbower, A. C., I, 1905, Supreintendent of Institutes and Extension Schools ..... Manhatan, Kans.
Hartman, T. J., III, 1898, Vice President, Producers State Bank ..... Tulsa
Hartshorne, E. C., II, 1912, Chief Operator, Bolboa Substation ..... Balboa, C. Z.
Harvey, Ruth, VI, 1916, Teacher ..... Devol
Harvey, C. E., II, 1911, Consulting Engineer ..... Chicago, Ill.
Harvey, J. W., II, 1913, 147th Aero Squadron ..... A. E. F.

Hastings, Alice, IV, 1905, Stewardess, Cafeteria, A. and M. College ..... Stillwater
Hatch, Hazel, V, 1916, Superintendent of Schools ..... Deer Creek
Havenstrite, Ralph W., I, 1915 ..... Lovell
Hayes, Clara, VI, 1916, Teacher ..... Mounds, Ill.
Haymes, Winton R., I, 1917, Silver Crown Mining Co ..... Miami
Hays, Glenn G., VI, 1915, Teacher ..... Harper, Kans.
Hayes, Philip H., VI, 1917, Assistant Poultry Club Agent, Extension Division ..... Stillwater
Hays, Frank A., I, 1908, Teacher, Iowa State College ..... Ames, Iowa
Hedger, H. R., I, 1913 ..... Camp Travis, Tex.
Heilman, Paul L., VI, 1916, Headquarters, Barracks of Embarkation ..... Newport News, Va.
Helmer, Richard, II, 1917, Private in U. S. Army, Hdqrs. Det. Trans. Corps ..... France
Hemphill, Ora L., II, 1909, Captain, Engineers, A. S. C. ..... France
Henderson, Georgia, VI, 1916, Teacher ..... Mann
Hendrickson, Elmo, I, 1916, Farming ..... Boynton
Henson, Ethel, IV, 1915, Teacher ..... Ralston
(Herndon) Herron, Maye, IV, 1914, at home ..... Idabel
Herron, L. G., I, 1913, County Agent ..... Idabel
Herrick, H. C., II, 1912, Kansas Truck and Tractor Co ..... Wichita, Kans.
Heston, Lucille, VI, 1916, Teacher ..... Devol
Heston, Adrian, II, 1915, Expert on gas motors and tractors ..... Chicago Heights, Ill.
Hewett, Norma, IV, 1916 ..... Oilton
Hewett, Paul M., I, 1915, Instrustor ..... Pine Island, Minn.
(Hiet) Wiley, Sadie, IV, 1915, at home ..... Kingfisher
Hiet, M. E., II, 1912, Merchant ..... Pawnee
Hildebrand, Mrs. E. B., IV, 1918 ..... Stillwater
Hildebrand, Eric, I, 1918 ..... Stillwater
Hildebrand, L. E., II, 1910 ..... Stroud
(Hill), Wilber, Ruth, IV, 1917, at home ..... Stillwater
(Hill), Bartlett, Vera, VI, 1912, at home ..... Rye, Col.
Hines, G. E., II, 1905, Chief Engineer, Ullen Contracting Co ..... Suffolk, Va.
Hinkel, John, V, 1917 ..... Rockford, Ill.
*Hirschi, Fred, II, 1918 .....
Hitchcock, Ethel, VI, 1917, Teacher ..... Goldonna, La.
Hobbs, Hugh, II, 1912, Assistant Engineer, M. P. R. R. ..... A. E. F., France
Hoke, Roy, I, 1917, Manager of refinery ..... Quay
Hoke, C. E., I, 1907, In charge of Farm Management Investigations in Oklahoma A. and M. College ..... Stillwater
Hoke, H. G., II, 1907, Sales Representative, Westinghouse Elec. & Mfg. Co., ... Brooklyn, N. Y.
(Hoke) Hart, Rhoda Charlotte, IV, 1914, at home ..... Hansford, Tex.
Hoke, Mac, I, 1912, Agriculturist, County Demonstrator ..... Enterprise, Ore.
Hoke, George, V, 1911, Lieutenant, 309th Field Signal Battery ..... A. E. F., France
(Holford), Talbot, Ina Crenshaw, VI, 1914, at home ..... Kansas City, Mo.
Holleman, Mathilda Gertrude, IV, 1914, Teacher ..... Salt Lake, N. M.
Holmes, D. L., V, 1908, Physical Director of Athletics, Cass School of Technology, ... Detroit, Mich.
Holmes, O. W., I, 1908, Commerce and Marketing Department ..... San Francisco, Calif.
Holton, Pauline, IV, 1915, at home ..... Quinlan
Hoover, G. W., III, 1903, Chemist, U. S. Food and Drug Laboratory ..... Chicago, Ill.
Hopkins, Maude, IV, 1918, Teacher ..... Ryan
Hopkins, Blanche, IV, 1918, Teacher ..... Luther
Hopps, C. W., II, 1911, Public Service Commission, New York ..... Boundsville, N. J.
Boundsville, N. J.
Horner, John T., VII, 1916, Public Accountant, Baker, Vatter & Wolff Auditing Company ..... Oklahoma City
Horton, Earl E., I, 1916, Teacher ..... Duncan
(Houck) Stewart, Afton, VI, 1916, at home ..... Independence, Kans.
House, R. M., II, 1903, Farm Implements ..... Bristow
Houston, Mamie G., III, 1903, Teacher ..... Goodrich, Idaho
Howell, Carl, II, 1906, Electric Bond and Share Co ..... Upper Montclair, N. J.
Hubler, W. A., III, 1910, Chemist for Illinois Steel Co ..... Gary, Ind.
Huddleson, I. F., V, 1915, Infirmary, Camp Greenleaf ..... Fort Oglethorpe, Ga.
Huffman, Louis Desenberg, V, 1914 ..... Military Service
Huffnagel, Chas., I, 1913, Instructor in Bacteriology, University of Ohio ..... Columbus, Ohio
Hughes, Pauline, VI, 1917, Title Guarantee and Trust Co ..... Tulsa
Hunt, Gertrude, III, 1902, Teacher ..... San Diego, Calif.
Hurst, J. B., I, 1917 ..... Jeffferson
Hurst, R. Bradford, III, 1901 ..... Jefferson
(Hurst) Suits, Nina B., III, 1903 ..... Jefferson

Ives, E. E., II, 1917, Lieutenant, Aviation ..... A. E. F.
Ives, F. H., I, 1910, Head of Department of Agriculture, Western Texas State Normal ..... Canyon, Tex.

Jablow, Mrs. Chas., IV, 1915, at home ..... Stillwater
Jack, Eula, VI, 1917, Principal of Consolidated School ..... Healdton
Jackson, J. A., II, 1916, Deputy and County Municipal Engineer ..... Pauls Valley
Jackson, Wm. Edgar, I, 1914 ..... Military Service
Jacob, A. W., I, 1913 ..... Stillwater
(Jacobs) Autry, Ethelyn, VI, 1915, at home ..... Portland, Ore.
Jacob, L. A., I, 1913, County Agent ..... Anoka, Minn.
James, Cornelia, VI, 1916, at home ..... Stillwater
(James) Keeshan, Helen, IV, 1913, at home ..... Oklahoma City
Janeway, Harold, VII, 1918, Field Agent, Empire Oil Co. ..... Eastland, Tex.
Janeway, George M., III, 1902, Banker ..... Collinsville
Janeway, Helen, IV, 1912, Teacher ..... Drumright
Janeway, Lenore, V, 1908, Teacher ..... Shawnee
(Jarrell) Hartman, Mary, III, 1903, at home ..... Tulsa
Jarrell, A. E., 1896, A., T. and S. F. Ry. ..... San Francisco, Calif.
Jeffords, S., I, 1912, Teacher ..... Muskogee
Jeffords, Mary, IV, 1914, Teacher ..... St. Louis, Mo.
Jenkins, Henry E., VI, 1918, Clerk in Department Store ..... Frederick
Jessee, W. B., I, 1911, Farmer ..... Supply
Jewitt, Kate A., III, 1901, at home ..... Udall, Kans.
Jones, Fred L., V, 1917, at home ..... Stillwater
Johnson, H. J., II, 1918, Engineer, Wagoner Electric Co. ..... St .Louis, Mo.
Johnson, Harry, VII, 1917, State Market Commissioner ..... Oklahoma City
Johnson, S. B., I, 1912, Teacher ..... Tucson, Ariz.
Johnson, Laura W., VI, 1913, at home ..... Ada
Johnson, Norma N., V, 1909, Teacher ..... Clinton
(Johnson) Crosby, Lucy, V, 1912, Teacher ..... Devan Manor, Devan, Pa.
*Johnston, J. C., II, 1905 .....
Jones, E. L., II, 1904, Electrical Engineer ..... San Jose, Calif.
Jones, L. R., V, 1915, Scientific Assistant, Public Health Service ..... Fayetteville, N. C.
(Jones) Tutle, Jeanne H., VI, 1916, Teacher ..... Cushing
Jones, C. Shelley, II, 1910 ..... Military Service
Jones, Daisy Ladine, IV, 1914, at home ..... Stillwater
(Jones) Kent, Eva, VI, 1914, ata home ..... Bartlesville
Jones, C. V., III, 1902, Lawyer ..... Clay Center, Kans.
Jordan, Charles Neal, VI, 1914, Metallurgical Chemist ..... Waterburg, Conn.

Katz, Henrietta, VI, 1915, Teacher ..... Sapulpa
Keller, Floyd, V, 1917, State Health Inspector ..... Oklahoma City
Kennon, William D., VI, 1914, County Agent ..... Alva
Kenworthy, Chester, I, Field Signal Battery ..... Camp Pike, Ark.
Kenyon, Lucille, VI, 1915, Teacher ..... Stillwater
Kenyon, R. S., II, 1903 ..... Oakland, Calif.
Kenyon, R. E., II, 1910, Sales Agent, General Electric Co. ..... Oakland, Calif.
Kerr, R. H., III, 1903, Chemist, Bureau of Animal Industry, U. S. Department of Agriculture ..... Hyattsville, Md.
Keys, Alma, IV, 1917, Extension Division, A. and M. College ..... Stillwater
Kezer, C. L., III, 1901, Teached of History in Whatcom High School ..... Ballinghama, Wash.
Kidd, J. W., II, 1904, Professor of Enginering, State School of Mines and Metallurgy ..... Fort Bliss, Tex.
Kile, Eugene, VI, 1915, Principal of Oilton High School ..... Oilton
Kilpatrick, Chas., I, 1917, Farmer ..... Hunter
(Kilpatrick) Gregory, May, IV, 1914, at home ..... Lafayette, Ind.
Kilpatrick, Earl I, 1912 ..... Military Service
Kimbell, James Albert, I, 1917, Lieutenant ..... Altus
Kinder, W. E., III, 1903, Employe, Standard Oil Co. ..... Wichita, Kans.
King, Beverly D., II, 1910, Enginer and Surveyor ..... Wharton, Tex.
(Kirkpatrick) Anderson, Victoria, V, 1910, at home ..... American Falls, Idaho
Kirkpatrick, Katie C., V, 1911, Teacher ..... Crocket, Tex.
Kirkpatrick, Cecil, IV, 1909 ..... Blackwell
Knause, E. J., I, 1905, Druggist, 24 Lester street ..... Kansas City, Mo.
(Knight) Brahaney, Lillian, VI, 1917 ..... Ranger, Tex.
Knoblock, F. L., II, 1912, Lieutenant, Battery 2, Camp Funston ..... Leon Springs, Tex.
Knoblock, Cecil C., V, 1915, Tulsa Laboratories ..... Tulsa
Kolshorn, Agnes, V, 1913, Columbia University ..... New York City, N. Y.
Kooken, E. R., I, 1910 ..... Bellingham, Wash.
Kraemer, Marguerite, VI, 1915, Principal of High School ..... Perry
Krall, J. A., I, 1913, Instructor in Iowa State College ..... Ames, Iowa
Kratka, Ralph, III, 1902, Inspiration Consolidated Copper Co. ..... Miami, Ariz.
Krepps, Samuel J., Jr., II, 1914, Motor Transport Officer ..... Camp Eustis, Va.
Krisher, Sherman, I, 1918 ..... Walters
Krone, Floy C., VI, 1916, Principal High School ..... Swethome, Ore.
Krone, Jessie, IV, 1918, at home ..... Chandler

Lahman, W. L., III, 1909, Ice Manufacturer ..... Stillwater

*Deceased.

(Lahman) Simank, Ruth A., V, 1914, Secretary Payne County Chapter American Red Cross ..... Houston, Tex.
Lane, F. P., I, 1913, State Leader, County Agricultural Agents ..... Laramie, Wyo.
Lantz, A. G., II, 1907, Contractor ..... Lantz, Calif.
Lantz, C. R., II, 1907, Electrical Engineer, Tacoma Drainage Co ..... Tacoma, Wash.
Lauderdale, Ruby, V, 1918, Assistant in Science and Literature, A. and M. College ..... Stillwater
Leichti, H. S., II, 1911 ..... Address Unknown
Leslie, Lewis, V, 1918, Chemist ..... Ponca City
Leteer, C. R., I, 1908, Superintendent, San Antonio Experiment Station ..... San Antonio, Tex.
Lewis, Arthur, III, 1901, Assistant State Entoomologist ..... Atlanta, Ga.
Lewis, E. G., I, 1896, Gas Lease Broker ..... Tulsa
(Lewis) Johnson, Myrtle I., IV, 1910, at home ..... Tucson, Ariz.
Lewis, Carrie, III, 1905, Teacher ..... Enid
Lewis, Clarence W., II, 1916, Empire Refining Co ..... Eldorado, Kans.
Lincoln, H. J., II, 1908, General Machine Shop Foreman, A., T. and S. F. Ry. Coompany ..... Chicago, Ill.
Lindsay, R. V., II, 1909, Farmre ..... Kingfisher
Long, Amy, VI, 1918, Teacher ..... Chandler
Loomis, Alden H., I, 1916, Student A. and M. College ..... Stillwater
Lovell, Clemens M., II, 1916, Westinghouse Electric Co ..... Pittsburgh, Pa.
(Losey) Barnes, Portia M., IV, 1913, at homae ..... Tucson, Ariz.
Lovell, Thos. J., II, 1912, Assistant Engineer, Electrical Division, U. S. Reclamation Service ..... Denver, Colo.
Lovett, A. E., I, 1904, State Agriculturist and Agent U. S. Dept. of Agriculture ..... Fort Collins, Colo.
Lovett, A. L., I, 1908, Entomologist, Oregon Agricultural College ..... Corvallis, Ore.
Lowman, E. F., V, 1912, Superintendent of Schools ..... Red Oak
Lowry, Fern, V, 1916, Psychologist ..... Stillwater
(Lowry) Utt, Ethel, IV, 1913, at home ..... Houston, Tex.
(Lowry) McKee, Theo., III, 1906, at home ..... Muskogee
Lowry, C. H., III, 1902, Attorney-at-Law ..... Stillwater
Lowery, Philip H., I, 1916 ..... Loco
Lynch, H. W., II, 1912, Substation Operator, Commonwealth-Editon Co ..... Chicago, Ill.

McArthur, C. L., III, 1911, Dairy Bacteriologist, Bureau of Animal Industry ..... Washington, D. C.
McBride, H. F., II, 1903, Superintendent, Guanajuanto Electric Co ..... Guanajuanto, Mexico
McBride, J. F., II, 1904 ..... Military Service
McBride, R. V., V, 1915, Truck Farming ..... Fort Lauderdale, Fla.
McBride, J. D., V, 1911, Co. 24, Fort Harbor ..... Boston, Mass.
(McBride) Matherly, Iva, IV, 1910, at home ..... Sugar Grove, N. C.
McCall, J. G., I, 1908, Instructor in Agriculture ..... Blooming Prairie, Minn.
McCarrel, Mrs. Fred, VI, 1918, Teacher ..... Stillwater
McCarrel, Fred, VI, 1916, Instructor, School of Education, A. and M. College ..... Stillwater
McCaslin, W. W., II, 1912, Electrical Division, Panama Canal ..... Canal Zone, Ancon, Panama
McConnell, Marjorie, VI, 1915, Teacher ..... Jenks
McClure, Marguerite Schermerhorn, V, 1914, at home ..... McAlester
McCollom, Walter, V, 1917 ..... Lone Wolf
McElroy, C. E., II, 1917, Electrical Sergeant, Coast Defense ..... Fortress Monroe, Va.
McElroy, C. H., I, 1906, Assistant in Bacteriology, A. and M. College ..... Stillwater
McIlvain, Chas., I, 1913, Farmer ..... Ponder, Tex.
*McIntyre, J. C., II, 1911 .....
McKay, M. B., VI, 1911, Assistant Plant Pathologist, Oregon Agricultural College ..... Corvallis, Ore.
McLelland, William, I, 1914, Farmer ..... East Point, La.
McLelland, Mathilde, VI, Student, Sargent's School ..... Cambridge, Mass.
McMullin, Samuel L., II, 1909, Lieutenant, 1st Co., R. O. T. Bn. Camp Alfred Vail ..... Little Silver, N. J.
McPheeters, Marguerite, IV, 1912, Professor of Home Economics ..... Edmond
McPheeters, T. R., VI, 1917, Superintendent of Schools ..... Edmond
McPheeters, Martha, IV, 1913, College Cheese Specialist, Extension Division, A. and M. College ..... Stillwater
McPheeters, Wm. H., II, 1909, Assistant Professor of Physics, Texas A. and M. College ..... College Station, Tex.
McPheeters, A. A., I, 1912 ..... Farrington, Minn.
McReynolds, A. B., III, 1899, Accountant, Southern Pacific Milling Co ..... King City, Calif.
McReynolds, S. A., III, 1902, Chemist, 2055 West Adams street ..... Chicago, Ill.

Madigan, Blanche, IV, 1917, Teacher, Home Economics ..... Ardmore
Mahaffey, Max, II, 1918 ..... Stillwater

*Deceased.

Mallory, Maisie, VI, 1918 ..... Newkirk
Malone, J. S., I, 1900, County Agent ..... Tulsa
*Mannheimer, Ruth, IV, 1914 .....
Mantle, David Leroy, II, 1918, Teacher ..... McAlester
Mantle, Lieutenant Guy, I, 1915, Military Service ..... France
Marble, Mable, VI, 1918 ..... Yale
Marker, Walter, I, 1914, Teacher ..... Orlando
Markwell Hazel, VI, 1918, Teacher ..... Stillwater
Maroney, Hugh, V, 1917, Naval Aviation ..... Pensacola, Fla.
Marple, Vern, III, 1904 ..... Denver, Colo.
Marsh, William, I, 1918, Assistant County Agent ..... Pauls Valley
Marsh, Walter R., II, 1916, Manufacturing Engineer, Western Electric Co. ..... Chicago, Ill.
Marsh, Corinne, IV, 1915, ata home ..... Springfield, Mo.
Marsh, Venus Lee, V, 1913, Teacher ..... Springfield, Mo.
*Martin, J. Elmer, V, 1917 .....
Martin, Ewing, VI, 1917, Teacher ..... Collinsville
Marx, Myron, II, 1917, Teacher, Guthrie High School ..... Guthrie
Marx, Lloyd S., II, 1915, Partner in Dry Goods and Clothing Store ..... Pawnee
Mason, Will J., II, 1916, Officer in U. S. Army ..... Eagle Pass, Tex.
Mathieu, Elro, I, 1917 ..... Lawton
Mayall, S. J., II, 1911, 725 South Chicago street ..... Los Angeles, Calif.
Mathews, R. N., V, 1917, Cosden & Co. ..... Tulsa
Mayer, Sylvia, IV, 1915, Teacher of Domestic Science ..... Drumright
Means, P. E., II, 1908, Burro Mountain Copper Co. ..... Tyrone, N. M.
Melton, Armon, V, 1915, Student, Geology ..... Columbia, Mo.
Melton, W. A., II, 1913 ..... Okmulgee
Merrifield, F. R., I, 1913, Evacuation Hospital No. 15 ..... Fort Riley, Kans.
Merrill, A. J., II, 1913, Engineer for New River E. Pocahontas Consolidated Coal Company ..... Charleston, W. Va.
Merry, George, V, 1913, Chief Chemist for Consumers Refining Co. ..... Cushing
Merydith, C. S., I, 1912, Farm Superintendent ..... Piggott, Ark.
Miller, Bertha, V, 1916, at home ..... Beeville, Tex.
*Miller, L. C., I, 1900 .....
Miller, Ella Nora, VI, 1914, Dean of Fine Arts, Phillips University ..... Enid
Miller, Esther Caroline, IV, 1914, Teacher ..... Helena
(Miller) Webb, Hilma Viola, IV, 1914, at home ..... St. Louis, Mo.
Miller, Maud, III, 1903, Bookkeeper ..... San Antonio, Tex.
Millikan, C. V., V, 1917, Nurse in Naval Hospital Corps ..... New York City, N. Y.
Miltimore, Cora A., V, 1899, Urban Agent ..... Gainesville, Fla.
Mitchell, Joe, VI, 1915 ..... Military Service
Mitchell, L. C., V, 1909, Chemist, Wilson & Co., Meat packers ..... Chicago, Ill.
Mitschrich, M., II, 1913, Designer for Moloney Electric Co. ..... St. Louis, Mo.
Mittendorf, T. H., I, 1917, Lieutenant, 42d Recruit Squadron, Aviation Field ..... Houston, Tex.
(Mondy) Roberts, Beulah, IV, 1916, at home ..... Oklahoma City
(Kyger) Moore, Helen, VI, 1916, at home ..... Stillwater
Moore, J. A., V, 1911, Mountain State Tel. and Tel Co. ..... Denver, Colo.
Moore, A. I., I, 1908, Minister ..... Beggs
Moore, R. H., V, 1908, Abstractor of Titles ..... Stillwater
Moorman, Helen, IV, 1916, Teacher ..... Comanche
Moote, T. P., II, 1910, 112 E. Daniel ..... Campaign, Ill.
Morgan, Bernice, V, 1904, Stenographer, Oregon State Bank ..... Bend, Oregon
Morgan, Vera, IV, 1917, Teacher ..... Shamrock
Morris, Clinton, III, 1898, 143 Laurel Ave. N. Highlands ..... Mason, Ga.
Morris, O. M., I, 1896, Head Department of Horticulture State College of Washington ..... Pullman, Wash.
(Morrison), Harrison, Virginia, VI, 1915, Stenographer, Dean of Engineering, A. & M. College ..... Stillwater
(Morrison), Berry, Edwina, III, 1907, at home ..... Stillwater
*Morrow, C. E., II, 1903 .....
Morrow, Bertha J., IV, 1914, Teacher ..... Sand Springs
(Morrow, Watkins, Jessie, III, 1903, Home Demonstration Agent ..... Clinton
(Morrow), Hall, Ella May, IV, 1914, at home ..... Perkins
Moseley, Frances, VI, 1917, Teacher, Stillwater High School ..... Stillwater
*(Moskedoll), McArthur, Olga, IV, 1911 .....
Moyer, O. J., I, 1915, Assistant Boys Club Agent, A. & M. College ..... Stillwater
Mullen, Clyde, I, 1915, Professor of Farm Crops, State Agricultural College ..... Manhattan, Kans.
Muncie, Blanche, IV, 1917, Teacher ..... Wynnewood
Murphy, Henry F., I, 1918, Farmer ..... Glencoe
Myers, S. E., III, 1899, A. T. & S. F. Ry. Co. ..... Perry
Murray, C. E., I, 1917, Captain 2nd Division 76 Co. 6th Marines ..... A. E. F.
Nash, Byron M., II, 1917 .....
Naylor, Harold R., I, 1916, Extension Worker, A. & M. College ..... Stillwater

*Deceased.

Needham, I. H., I, 1915, Extension Worker, A. & M. College ..... Stillwater
Needham, Ollie, II, 1909, Westinghouse Electric and Mfg. Co. ..... Wilkinsburg, Pa.
Neerman, Katherine, V, 1917, University of Wisconsin ..... Madison, Wis.
Nellis, H. W., II, 1912, Government Service ..... Canal Zone, Panama
Nelms, E. B., VI, 1918, Instructor of General Science, A. & M. College ..... Stillwater
Nelson, Vinita, IV, 1916, Instructor of Home Economics ..... Eufaula
Nelson, Lieutenant Joseph S., II, 1917 ..... A. E. F.
Nelson, I. A., V, 1917, Graduate Student Asst. in Chem., A. & M. College ..... Stillwater
(Nelson) Chandler, Lila E., III, 1903, at home ..... Lalispell, Mont.
Nelson, Stella, III, 1903, Druggist ..... Washington, D. C.
Nelson, J. A., III, 1905, Physician, No. 1 R street, N. E. ..... Washington, D. C.
Nelson, Cyrus W., III, 1903, Physician and Surgeon ..... Liberty, Tex.
Nelson, Abigail E., III, 1907, Druggist ..... Washington, D. C.
Netick, Joe, II, 1917, Draftsman and Engineer, Ohio Cities Gas Co. ..... Cisco, Tex.
(Newcomb) Crom, Bonnie, III, 1907, at home ..... Chicago, Ill.
Newell, Rose, VI, 1917, Principal of High School ..... Kiefer
*Newland, Mrs. Minnie, V, 1912 .....
(Newman) Batson, Eleanor H., V, 1914, at home ..... Washington, D. C.
(Newman) Frenzel, Iva F., IV, 1912, 537 West Washington avenue ..... Madison, Wis.
Newman, Leo M., II, 1910, Chief Geologist, Carter Oil Co. ..... Tulsa
(Neilson) Taylor, Mary A., III, 1903, at home ..... Perry
North, Esther, A., III, 1908, Teacher ..... Chelsea
North, Kate, IV, 1912, Instructor of Home Economics, North Dakota Agricultural College ..... Fargo, N. D.
Notson, F. Carl, II, 1916, Cost Department, Dougherty Co. ..... Bartlesville

O'Brien, G. E., I, 1913, State Department of Agriculture ..... Des Moines, Iowa
Oldham, Rhodella, IV, 1917, Stenographer, Extension Division, A. and M. College ..... Stillwater
Oldham, Albert E., V, 1915, Military Service ..... A. E. F.
(Oelntine) McNeely, Hazel, IV, 1918, at home ..... Muskogee
Olentine, Fred B., III, 1906, Physician and Surgeon, St. Anthony's Hospital ..... Chicago, Ill.
Orr, Don M., I, 1918, Teacher ..... Madill
Orr, Paul F., V, 1915, Bacteriologist, City Health Department ..... Toledo, Ohio
Osborn, John, II, 1906 ..... Address Unknown
(Oschman) Ross, Hattie, III, 1907, at home ..... Claremore
(Oschman) Allen, Maude, V, 1912, at home ..... Nowata
Otey, M. J., V, 1902, Financial Secretary and Purchasing Agent, A. and M. College ..... Stillwater
Oursler, A. C., I, 1910, Creamery Owner ..... Oklahoma City
Oursler, Anna Lovina, V, 1914, Teacher ..... Arapaho
(Oursler) Taylor, Elizabeth, VI, 1912, at home ..... Stillwater
Owsley, Wm. A., I, 1918, Farmer ..... Pawnee

Painter, Ray H., V, 1912 ..... Westgorve, Mo.
Parker, Hazel, IV, 1917, Teacher ..... Sulphur
Patterson, W. H., II, 1915, Signal Corps ..... Fort Sill
Payne, Wm. F., V, 1915, Digestive Ferments Co. ..... Detroit, Mich.
Payne, L. F., I, 1912, Instructor in Poultry Husbandry, Massachusetts Agricultural College ..... Amherst, Mass.
(Pearson) Melton, Thirza, IV, 1913, at home ..... Battle Creek, Mich.
Peck, O. T., II, 1908, College Store ..... Stillwater
Peck, H. L., II, 1915 ..... Military Service
Peck, C. P., I, 1914, Book Business ..... Stillwater
*Pierson, Helen, VI, 1918 .....
Pierson, James W., I, 1916, Farmer and Stickman ..... Pond Creek
Pigg, H. F., II, 1902, Assex Company ..... Mineville, N. Y.
Pochall, R. A., II, 1910, Assistant Professor of Engineering, Iowa State College ..... Ames, Iowa
Poole, Grace, VI, 1917, Teacher ..... Stillwater
Potts, F. M., I, Farmer, R. D. 3, Box 4 ..... Dexter, Mich.
Powell, Bessie, IV, 1918 ..... Martinsville, Va.
Priest, Stella, V, 1912, Teacher in English, A. and M. College ..... Stillwater
Putman, O. L., I, 1918 ..... Milo

Radnish, Helen, IV, 1916, Teacher ..... Prague
Ransom, George R., I, 1916 ..... Stillwater
Ransom, Harry, I, 1917, Military Service ..... A. E. F., France
Rapp, Irma, IV, 1917, Teacher in High School ..... Hobart
Rapp, C. W., I, 1915 ..... Stillwater
Ratliff, J. A., I, 1907, Assistant, Experimental Agronomy in University of Nebraska ..... Lincoln, Neb.
Rector, F. L., V, 1902, Great Bear Spring Co. ..... Brooklyn, N. Y.
Reed, Fred A., II, 1911, Tire Vulconizer, Military Service ..... Camp Custer, Mich.
Reeve, C. T., II, 1907, Electrical Engineer an dsuperintendent ..... Cohoes, N. Y.

*Deceased.

Reeve, H. W., I, 1907, Farmer ..... Mustang
Reeve, J. R., II, 1915, Lieutenant, Hdq. 412th Labor Bn ..... Camp Travis, Tex.
*Regnier, C. E., III, 1899 .....
Regnier, M. A., II, 1911 ..... Address Unknown
Reichman, Maude, VI, 1916, Teacher in High School ..... Alva
Reichman, Elizabeth, V, 1915, Teacher ..... Oklahoma City
(Reichman) Powers, Mable L., V, 1915, Teacher in High School ..... Chickasha
Reid, Guy C., II, 1916, Architect, 19½ West Main ..... Oklahoma City
Reynolds, F. S., I, 1915, Teacher ..... Staples, Minn.
Reynolds, E. B., I, 1914, Agronomist ..... College Station, Tex.
Reynolds, Oris H., II, 1914, Draftsman, Union Pacific Ry. Co. ..... Kansas City, Mo.
Rhodes, T. W., II, 1913, Oil Business ..... Fort Worth, Tex.
Richards, Hattie, IV, 1912, Teacher in High School ..... Denver, Colo.
(Reid) Arrington, Grace, IV, 1913, at home ..... Warner
Rinehart, Virgil, I, 1917 ..... Ramona
Ritter, L. B., V, 1910, Chemist, Kansas University ..... Lawrence, Kans.
Roberts, Clarence, I, 1915, Field Editor, The Oklahoma Farmer-Stockman ..... Oklahoma City
Robertson, Ruben, I, 1917, Farmer ..... Stillwater
Robinson, Wm. B., I, 1917, Co. A, 346th Infantry ..... Camp Pike, Ark.
Robinson, Joe L., I, 1916, Teacher ..... Laramie, Wyo.
Robinson, A. G., III, 1903, Assayer ..... Phoenix, Ariz.
(Rockey) Evans, Nellie, VI, 1914, at home ..... Oklahoma City
Roeser, Harry Mance, II, 1914, Bureau of Standards, Department of of Commerce ..... Washington, D. C.
(Rogers) McDowell, Bertha, I, 1916, at home ..... Muskogee
(Rogers) Faulds, Almira, IV, 1910, at home ..... Wauchula, Fla.
Rose, Rollin M., I, 1915 ..... Stillwater
*Rosenbaum, William, VI, 1918 .....
Ross, J. K., II, 1910, Hardware Merchant ..... Madill
Ross, Sam I., II, 1911, Instructor in Mechanical Engineering and Draftsman ..... Fort Collins, Colo.
(Ruble) Warren, Bertha, III, 1903, at home ..... Ada
Rudd, E. L., II, 1912, Engineer, Western Electric Co. ..... Cicero, Ill.
Rush, W. S., II, 1905, Manager, Rush Marine Signal Co. ..... New York City, N. Y.
Russell, Margaret, IV, 1917, Teacher ..... Oklahoma City
Russell, Mamie, IV, 1915, Teacher ..... Putman City
Russell, Carl, I, 1914, County Agent ..... Ardmore
Ryno, Madeline, IV, 1913, Stenographer, Extension Division, A. and M. College, ... Stillwater

Santee, L. A., II, 1913, Barnes Bldg ..... Muskogee
Savage, Orville M., I, 1916, Automobile Dealer ..... Ponca City
Schaefer, Paul, II, 1915, Assistant Engineer, Oklahoma Petroleum and Gas Co. ..... Mountain View
Schnurr, Angie, IV, 1918, Teacher ..... Forgan
Schnurr, C., II, 1911, Box 246 ..... Cisco, Tex.
Schreiber, S. C., I, 1913, Farmer ..... Harriston, Va.
Schwark, Conrad William, I, 1914, Teacher ..... Canon City, Colo.
Scott, Wiley, I, 1915 ..... Military Service
Scott, J. H., II, 1917, Lieutenant, Co. 18, 18th Infantry ..... A. E. F., Germany
Scott, Izora, V, 1915, at home ..... Columbus, Mont.
Scott, E. M., II, 1913, Commonwealth-Edison Co. ..... Chicago, Ill.
Scrivner, Russell, I, 1916 ..... Camp Travis, Tex.
Scruggs, P. G., I, 1915, Agriculturist, Cameron State School of Agriculture ..... Lawton
Seeger, E. E., I, 1913 ..... Military Service
Selement, F. J., II, 1910 ..... Yukon
Selph, Layla, IV, 1918, Teacher ..... Pawnee
(Selph) Wilson, Nina, IV, 1915, at home ..... Stillwater
(Semke) Harrington, Grace E., V, 1906, Teacher ..... Garber
Sexauer, Dorothy, IV, 1916, Extension Division, A. and M. College ..... Stillwater
Shallenberger, Garvin, V, 1912, Assistant in Chemistry and Physics, Tulane University ..... New Orleans, La.
Shaw, Anna M., VI, 1910, Teacher of Home Economics in High School ..... Marietta
Shaw, Ava, IV, 1914, Instructor in History and Science ..... Healdton
(Sheets) Smith, Grace, IV, 1916, at home ..... Clinton
Sherwood, E. C., I, 1918, Assistant in Horticulture, A. and M. College ..... Stillwater
Shiflett, H. D., 1913, Dairyman ..... Marlow
Shiflett, Riley F., I, 1914, Teacher ..... Marlow
Shiflett, R. C., I, 1911, Teacher ..... Goodwell
Shiller, H. H., II, 1917 ..... Camp Pike, Ark.
Shinn, E. H., I, 1917, State Capitol ..... Little Rock, Ark.
Shiry, E. E., VI, 1914, Farming ..... Shattuck
Shively, R. Rex, V, 1902, Chemical Engineer, Monogah Glass Co. Fair View, W. Va.
Short, Robert, I, 1913 ..... Camp Pike, Ark.

*Deceased.

Sieglinger, J., I, 1913, Agricultural Experiment Work ..... Woodward
Simank, Edmond W., II, 1914, Architectural Engineer, Gulf Pipe Line Co. ..... Houston, Tex.
Simank, Ben, II, 1915, Engineer, 2033 Neaches street ..... Beaumont, Tex.
Smith, G. C., VI, 1917, Baker, Co. 4 ..... Camp Funston, Kans.
Smeltzer, C. E., III, 1902, Physician ..... Fairview, Nev.
Smith, J. G., I, 1911, Real Estate Business ..... Dallas, Tex.
Smith, John Graham, I, 1914, Stock Farming ..... Newlin, Tex.
Smith, Elwin J., II, 1914 ..... A. E. F., France
*Smith, S. G., III, 1906 .....
Smith, A. Ray, I, 1915, Assistant County Agent ..... Muskogee
Sitmh, C. Ray, V, 1910, Real Estate and Investments ..... Stillwater
Smith, R. R., V, 1913, Officer in Regular Army, Infantry, A. D. C. ..... Fort D. A. Russell, Wyo.
Snyder, Beryl, VI, 1917, Teacher ..... Burke, S. D.
(Snyder) Jacobs, Georgia, IV, 1913, at home ..... Mora, Minn.
Southwick, Ivan, II, 1918 ..... Garber
Spaulding, J. A., I, 1905, Assistant Cashier, Globe Grain and Milling Co. ..... Los Angeles, Calif.
Spaulding, H. B., V, 1910, Medical Student, University of Michigan ..... Ann Arbor, Mich.
Spencer, Tracy Henson, IV, 1918, at home ..... Hobart
(Spear) Scrivner, Mary, IV, 1915, at home ..... Boerne, Tex.
Spear, Maude, II, 1915, at home ..... Bismarck, N. D.
Spencer, J. R., I, 1918, Assistant County Agent ..... Hobart
*Spencer, E. L., I, 1915 .....
Spidel, M. John, I, 1910, Farmer ..... Washington, Iowa
Spohn, R. E., II, 1910, Farmer ..... Glencoe
Spohn, Carolyn, IV, 1915, at home ..... Glencoe
(Spurrier) Hedger, Kara, IV, 1917, at home ..... Stillwater
Stallings, Ida, IV, 1915, at home ..... Morrillton, Ark.
Stanley, May, VI, 1914, Teacher ..... Pueblo, Colo.
Stebbins, A. A., II, 1909, Postmaster ..... Garber
Stebbins, R. R., V, 1909, Farmer ..... Garber
Stevens, H. I., III, 1904, Chemist, St. Louis Surface Plant Co. ..... St. Louis, Mo.
Stevens, Margaret McKittrick, IV, 1914, Government Work ..... Mexico
Steward, Eldridge, II, 1918, Architect ..... Wichita Falls, Tex.
(Stewart) Jessee, Annabel, V, 1911, at home ..... Supply
Stewart, F. L., II, 1909 ..... Tulsa
Stiles, G. W., III, 1900, Bureau of Chemistry, U. S. Department of Agriculture ..... Denver, Colo.
Stinson, Chester Calhoun, I, 1914, County Agent ..... Ryan
Stout, Chas. Gordon, II, 1916 ..... Wellston
(Stover) Olson, Nanna, V, 1909, at home ..... Cushing
(Stover) Gougler, Ida M., V, 1908, at home ..... Warrensburg, Mo.
Straub, Otto, I, 1910 ..... Camp Taylor, Ky.
Surtees, L. V., I, 1917, Lieutenant, Camp McArthur ..... Waso, Tex.
Swalley, Lucy, IV, 1918, Teacher ..... Frederick
(Swope) Dolde, Emma H., III, 1898, 918 8th street East ..... Las Vagas, N. M.
Swope, H. M., II, 1913, Engineer for Santa Fe Ry. Co. ..... Las Vagas, N. M.

(Talbot) Buchanan, Gertrude, IV, 1913, at home ..... Marshalltown, Iowa
Talbot, Nora A., VI, 1910, Professor of Domestic Art, A. and M. College ..... Stillwater
Talbot, A. E., I, 1912, Aines Farm Dairy ..... Kansas City, Mo.
(Tankersley) McAninch, Lola, III, 1905, at home ..... Stillwater
Tarr, W. A., II, 1904, Assistant Professor of Geology and Mineralogy, Missouri University ..... Columbia, Mo.
Tate, J. A., II, 1909, Sinclair Oil Co. ..... Tulsa
(Taylor) Swim, Inez, IV, 1915, at home ..... Stillwater
(Taylor) Keith, Jatta C., IV, 1916, at home ..... Stillwater
(Taylor) Ellis, Jeannette, III, 1907, County Home Demonstration Agent ..... Dresden, Tenn.
(Temming) Casteel, Ruth E., IV, 1912, at home ..... Sapulpa
(Thatcher) Bost, Jessie O., III, 1897, at home ..... Alva
(Thomas) Hurst, Martha, IV, 1917, Teacher ..... Supply
Thomas, Olive B., IV, 1916, Teacher ..... Edmond
Thomas, J. R., I, 1915, County Agent ..... Medford
Thompson, Pauline, IV, 1916, Teacher ..... Henryetta
Thompson, W. Grady, VII, 1916, Salesman for Katz Department Store ..... Stillwater
Thompson, Eugene, I, 1912, Farmer, R. D. 4, Box 4 ..... Oklahoma City
Thornberry, J. W., I, 1904, Buttermaker ..... Astoria, Ore.
Thornberry, W. T., II, 1903, Contractor, 3910 Euclid avenue ..... Kansas City, Mo.
(Thoroughman) Williams, Maude, III, 1904, at home ..... Perkins
Tibbetts, F. J., II, 1910, General Electric Co. ..... El Paso, Tex.
(Tice) Woodson, Sula, V, 1915, at home, 7725 Brashear ..... Pittsburgh, Pa.

*Deceased.

Tillottson, Bonnie, III, 1909, Teacher ..... Oklahoma City
Tillottson, A. K., V, 1912 ..... Military Service
Tingle, J. T., I, 1915, Agricultural College ..... Fort Collins, Colo.
Tippie, Geo. A., VI, 1917 ..... Military Service
Tourtellotte, Evert, I, 1914 ..... Stillwater
Trekell, Edna, IV, 1918, Teacher ..... Wagoner
Tongue, G. F., II, 1912, Assistant Superintendent, Dallas Ry. Co. ..... Dallas, Tex.
Treeman, Herbert L., II, 1909, Manager, Electric Department, Eastern Pennsylvania Ry. Co. ..... Pottsville, Pa.
Trent, Dover, V, 1913, Superintendent of City Schools ..... Cleveland
Trueax, C. P., II, 1911, Designer and Draftsman, 9036 Dauphin avenue ..... Chicago, Ill.
Turner, Pearl, VI, 1917, Teacher ..... Porum
Turner, Homer, I, 1915, Teacher ..... Lawton

Utt, O. G., II, 1912, Government Inspector Vessel Propellers ..... Houston, Tex.

Vance, Alfred Wm., II, 1916, Lieutenant ..... Military Service
Vance, Leon Robert, I, 1914, Teacher ..... Enid
Vandervoort, L. A., II, 1912, Superintendent, Chestnut and Smithville, Tex., Division ..... Ranger, Tex.
Venters, H. D., V, 1915, Assistant Bacteriologist, State Board of Health ..... Jacksonville, Fla.
Vermillion, Ruth, IV, 1918, Teacher ..... Oilton
Vermillion, Rachel, VI, 1916, Teacher ..... Collinsville
Vezey, E. E., II, 1910, Superintendent of Schools ..... Sweeny, Tex.

Wade, Earle, I, 1918 ..... Douglas
Walker, K. D., I, 1913, Farmer ..... Seneca, Mo.
Walker, Ethel, V, 1902, Teacher ..... Orange, Calif.
Walker, Louis Eugene, V, 1914, Teacher ..... Fort Worth, Tex.
(Walker) Durand, Fay B., III, 1905, at home ..... Chicago, Ill.
Walker, Florence, III, 1903, Clerk ..... Washington, D. C.
Walker, Vada, III, 1906, Librarian ..... Anaheim, Calif.
Walker, Belle, III, 1902, at home ..... Oklahoma City
(Walker) Swinford, Velma, III, 1901, at home ..... Stillwater
*Walters, Julia, IV, 1913 .....
Walters, Joe, I, 1917, at home ..... El Reno
Walters, Marguerite P., IV, 1910, Acting Librarian, A. and M. College ..... Stillwater
Walters, Minnie D., Professor of Domestic Science and Art, McPherson College ..... McPherson, Kans.
Ware, Alta, IV, 1915, Teacher ..... Sapulpa
Warren, Jessie M., IV, 1915, Assistant in Bank ..... Adair
Waters, George A., Jr., I, 1916, Faremr and Stockman ..... Pawnee
Watrous, Robt. O., II, 1910, Jewelry Business ..... Cushing
Watson, W. E., I, 1913, County Agent ..... Faley, Minn.
Watson, Florence, VI, 1913, County Demonstration Agent ..... Wagoner
Watson, W. P., II, 1913, C. A. C., U. S. A., A. E. F. ..... France
Watson, D. H., II, 1911 ..... Military Service
Weaver, Carl, VII, 1916, Employe, Montgomery Warm & Co. ..... Kansas City, Mo.
Weaver, Earl, I, 1913 ..... Military Service
Webb, Nix, II, 1918 ..... Tipton
Webb, Robert, II, 1918, Engineer, Wagoner Electric Co. ..... St. Louis, Mo.
Webb, A. E., I, 1912, Teacher ..... Two Harbors, Minn.
(Webb) Epperson, Leona Marguerite, IV, 1914, at home ..... Durham, N. C.
Webb, Howard Floyd, I, 1914, Health Laboratories ..... Tulsa
Weber, A. G., V, 1915 ..... Military Service
Weber, Herbert, II, 1915, Tester of Electrical Machinery and Apparatus, Westinghouse Electric and Manufacturing Co. ..... Wilkinsburg, Pa.
Wells, E. E., II, 1913, Draftsman ..... Tulsa
Werner, Ida Autonia, V, 1912, Student University of Chicago ..... Chicago, Ill.
West, Wm. E., I, 1917 ..... Warner
(Wheeler) Colglazier, Pearl, IV, 1918, at home ..... Drumright
Wheeler, C. P., I, 1917, Farmer ..... Blackewell
Wheeler, Birdie, VI, 1916, Teacher ..... Perry
Whitford, Mrs. Helen Tilton, VI, 1918 ..... Nardin
Whillock, Beuna, VI, 1917, Teacher ..... Luther
Whipple, Arthur Floyd, V, 1914 ..... Military Service
White, H. H., II, 1913, Lieutenant, Co. E, 312th Engineers ..... Bordeaux, France
Whiteside, A., I, 1913, Teacher ..... St. Cloud, Minn.
Whitlock, Ernest, V, 1914 ..... Military Service
Wiar, Pearl, III, 1907, Chief Clerk, Empire Pipeline Co. ..... Bartlesville
Wiener, Lawrence, I, 1915, Dairy Inspector ..... Long Island, N. Y.
Wilburn, Verda, VI, 1915, Teacher ..... Caldwell, Kans.
Williamson, Captain Emery, II, 1916 ..... Military Service
(Williamson) Hoke, Carrie, IV, 1915, at home ..... Enterprise, Ore.
Winkelman, Magdalen, VI, 1918 ..... Chandler

*Deceased.

Wilson, J. M., II, 1917 ..... Military Service
Wilson, Hester, IV, 1918, Teacher ..... Cordell
Wilson, Lillian Ella, V, 1918 ..... Stillwater
Wilson, Orville G., VII, 1916, High School Principal ..... Cherokee
Wikle, G. F., II, 1904, Designing Engineer, B. F. Goodrich Co. ..... Akron, Ohio
Winkle, H. H., II, 1911, Electrical Engineer, Becker Bros. ..... Chicago, Ill.
Wiley, R. C., III, 1905, Chemist ..... Manhattan, Kans.
Williasm, R. L., I, 1913 ..... Address Unknown
Williams, Guy P., II, 1910, Electrical Engineer, Goodyear Rubber Co. ..... Akron, Ohio
Will, Doris G., II, 1910, Sales Department, Westinghouse Electric and Mfg. Co. ..... Wilkinsburg, Pa.
Wilson, Jas., III, 1906, Professor at Cornell University ..... Ithaca, N. Y.
Wilson, Clay E., VI, 1911 ..... Military Service
Wilson, H. E., II, 1910, Assistant Division Engineer, Illinois Division, A., T. and S. F. Ry. Co. ..... Chillicothe, Ill.
Winn, Annaliza, IV, 1917, Teacher ..... La Kemp
Winters, N. E., I, 1911, Superintendent, Experiment Station ..... Angleton, Tex.
(Wirfs) Tobin, Clair, IV, 1912, at home ..... Denver, Colo.
Withers, Clay A., III, 1904, Dentist ..... Denver, Colo.
(Wise) Lantz, Mable, IV, 1909, at home ..... Tacoma, Wash.
Wise, Oscar, I, 1914, Employe, Gypsy Oil Co. ..... Kiefer
(Wise) Diggs, Blanche, V, 1898, at home ..... Stillwater
Wood, C. A., I, 1908, County Engineer ..... Stillwater
Witte, Harold, II, 1918, Westinghouse Electric and Mfg. Co. ..... Wilkinsburg, Pa.
Wood, Ray Allen, II, 1914, Engineer, Westinghouse Electric and Mfg. Co. ..... Pittsburgh, Pa.
Woodruff, Wayne, II, 1918, Sergeant of Engineers, Co. A, 605th Engineers, A. E. F. ..... France
Woodson J. Clay, II, 1915, Electrical Inspector, U. S. Navy ..... Wilkinsburg, Pa.
Woodson, Mortimer, I, 1917, T. A. T. C., A. E. F. ..... France
Woodson, M. M., III, 1902, Investment Broker ..... Fallon, Nev.
Woodworth, L. A., I, 1915, Dairyman ..... Madison, Wis.
Woodworth, J. E., I, 1905, Statistician ..... Guthrie
Woodworth, Clyde M., I, 1910, Field Assistant, Cereal Investment ..... Madison, Wis.
Word, Gurtha Ray, V, 1914, Teacher ..... Goodwell
Worthington, W. H., II, 1910, Chief Engineer, Electric Wheel Co. ..... Quincy, Ill.
Wortman, Leo, I, 1918, Farmer ..... Stillwater
(Wright) Reid, Gertrude, VI, 1916, at home ..... Oklahoma City
Wright, N. W., VI, 1917, Farmer ..... Venanda, Mont.
Wright, H. M., II, 1915 ..... Address Unknown
(Wright) Wimer, Louise, VI, 1912, at home ..... Hopsonville, Mont.
Wyant, Lynton D., II, 1917, Petroleum Chemist ..... Tulsa

Young, J. E., II, 1915 ..... Sharon, Pa.
Young, Kenneth Roscoe, II, 1914, U. S. Inspector, Mississippi River Commission ..... Round Lake, Miss.

Znamenacheck, Ed, II, 1908, Commonwealth-Edison Co. ..... Chicago, Iii.

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